



PSB Singapore

# Attachment No. 2

## National and Group Differences for IEC 60950-1 1<sup>st</sup> Ed. as per CB Bulletin No. 112A (2006)

Countries Included: See overview on  
following page

Attachment contains

|             |        |
|-------------|--------|
| Cover page: | 1 page |
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|---------------------------------|----------|
| National and Group Differences: | 48 pages |
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| Total: | 49 pages |
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Explanation for Abbreviations:

Possible Verdicts: **P** = Pass, **F** = Fail, **N/A** = Not Applicable

Remarks:

Throughout this report, a point is used as the decimal separator.

| Clause                                                                                                                                                      | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Result - Remark                                                                                                   | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------|
| CENELEC COMMON MODIFICATIONS [C],<br>SPECIAL NATIONAL CONDITIONS [S] AND A-DEVIATIONS (NATIONAL DEVIATIONS) [A]<br>(EN 60950-1:2001, Annex ZB and Annex ZC) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                   | P       |
| General                                                                                                                                                     | C: Delete all the "country" notes in the reference document according to the following list:<br><br>1.1.5 Note 2    1.5.8 Note 2    1.6.1 Note<br>1.7.2 Note 4    1.7.12 Note 2    2.6 Note<br>2.2.3 Note    2.2.4 Note    2.3.2 Note 2, 7, 8<br>2.3.3 Note 1, 2    2.3.4 Note 2,3    2.7.1 Note<br>2.10.3.1 Note 4    3.2.1.1 Note    3.2.3 Note 1, 2<br>3.2.5.1 Note 2    4.3.6 Note 1,2    4.7.2.2 Note<br>4.7.3.1 Note 2    6.1.2.1 Note    6.1.2.2 Note<br>6.2.2 Note    6.2.2.1 Note 2    6.2.2.2 Note<br>7 Note 4    7.1 Note<br>G2.1 Note 1, 2    Annex H Note 2 | Delete.                                                                                                           | P       |
| 1.2.4.1                                                                                                                                                     | S (DK): Certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.                                                                                                                                                                                                                                                                                                                                                                                                     | The power cord is not provided with the unit. Evaluation of the clause should be made with final system assembly. | N/A     |
| 1.5.1                                                                                                                                                       | A (SE, Ordinance 1990:944 and CH, Ordinance on environmentally hazardous substances SR 814.013, Annex 3.2, Mercury): Add NOTE – Switches containing mercury such as thermostats, relays and level controllers are not allowed.                                                                                                                                                                                                                                                                                                                                           | No such switches provided.                                                                                        | N/A     |
| 1.5.8                                                                                                                                                       | S (NO): Due to the IT power system used (see annex V, Fig. V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).                                                                                                                                                                                                                                                                                                                                                                                                                    | Considered.                                                                                                       | P       |
| 1.7.2                                                                                                                                                       | S (FI, NO, SE): Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.<br><br>The marking text in the applicable countries shall be as follows:                                                                                                                                   | Must be considered before marketed in Norway, Sweden and Finland.                                                 | N/A     |
|                                                                                                                                                             | FI: "Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ditto.                                                                                                            | N/A     |
|                                                                                                                                                             | NO: "Apparatet må tilkoples jordet stikkontakt"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ditto.                                                                                                            | N/A     |
|                                                                                                                                                             | SE: "Apparaten skall anslutas till jordat uttag"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ditto.                                                                                                            | N/A     |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Result - Remark                 | Verdict |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------|
|        | <p>A (DK, Heavy Current Regulations): Supply cords of class I equipment, which is delivered without a plug, must be provided with a visible tag with the following text:</p> <p>Vigtigt!<br/>Lederen med grøn/gul isolation må kun tilsluttes en klemme mærket</p> <p> eller </p> <p>If essential for the safety of the equipment, the tag must in addition be provided with a diagram which shows the connection of the other conductors, or be provided with the following text: "For tilslutning af de øvrige ledere, se medfølgende installationsvejledning."</p>                                                                                    | The power cord is not provided. | N/A     |
| 1.7.5  | S (DK): Socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For stationary equipment the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No socket-outlets provided.     | N/A     |
| 1.7.5  | A (DK, Heavy Current Regulations): class II equipment shall not be fitted with socket-outlets for providing power to other equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Class I equipment.              | N/A     |
| 1.7.12 | <p>A (DE, Gesetz über technische Arbeitsmittel (Gerätesicherheitsgesetz) [Law on technical labour equipment {Equipment safety law}], of 23rd October 1992, Article 3, 3rd paragraph, 2nd sentence, together with the "Allgemeine Verwaltungsvorschrift zur Durchführung des Zweiten Abschnitts des Gerätesicherheitsgesetzes" [General administrative regulation on the execution of the Second Section of the Equipment safety law], of 10th January 1996, article 2, 4th paragraph item 2):</p> <p>Directions for use with rules to prevent certain hazards for (among others) maintenance of the technical labour equipment, also for imported technical labour equipment shall be written in the German language.</p> <p>NOTE: Of this requirement, rules for use even only by service personnel are not exempted.</p> |                                 | P       |
| 1.7.15 | A (CH, Ordinance on environmentally hazardous substances SR 814.013): Annex 4.10 of SR 814.013 applies for batteries.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No batteries provided.          | N/A     |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Result - Remark                                | Verdict    |
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|        | <p>A (DE, Regulation on protection against hazards by X-ray, of 8th January 1987, Article 5 [Operation of X-ray emission source], clauses 1 to 4):</p> <p>a) A licence is required by those who operate an X-ray emission source.</p> <p>b) A licence in accordance with Cl. 1 is not required by those who operate an X-ray emission source on which the electron acceleration voltage does not exceed 20 kV if</p> <p>1) the local dose rate at a distance of 0,1 m from the surface does not exceed 1 µSv/h and</p> <p>2) it is adequately indicated on the X-ray emission source that</p> <p>i) X-rays are generated and</p> <p>ii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer.</p> <p>c) A licence in accordance with Cl. 1 is also not required by persons who operate an X-ray emission source on which the electron acceleration voltage exceeds 20 kV if</p> <p>1) the X-ray emission source has been granted a type approval and</p> <p>2) it is adequately indicated on the X-ray emission source that</p> <p>i) X-rays are generated</p> <p>ii) the device stipulated by the manufacturer or importer guarantees that the maximum permissible local dose rate in accordance with the type approval is not exceeded and</p> <p>iii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer.</p> <p>d) Furthermore, a licence in accordance with Cl. 1 is also not required by persons who operate X-ray emission sources on which the electron acceleration voltage does not exceed 30 kV if</p> <p>1) the X-rays are generated only by intrinsically safe CRTs complying with Enclosure III, No. 6,</p> <p>2) the values stipulated in accordance with Enclosure III, No. 6.2 are limited by technical measures and specified in the device and</p> <p>3) it is adequately indicated on the X-ray emission source that the X-rays generated are adequately screened by the intrinsically safe CRT.</p> | <p>The unit does not emit X-ray radiation.</p> | <p>N/A</p> |

| Clause          | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Result - Remark               | Verdict |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|
| 2.2.4           | S (NO): Requirements according to this annex, 1.7.2 and 6.1.2.1 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No TNV circuits provided.     | N/A     |
| 2.3.2           | S (NO): Requirements according to this annex, 6.1.2.1 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ditto.                        | N/A     |
| 2.3.3 and 2.3.4 | S (NO): Requirements according to this annex, 1.7.2 and 6.1.2.1 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ditto.                        | N/A     |
| 2.6.3.3         | S (GB): The current rating of the circuit shall be taken as 13 A, not 16 A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Considered.                   | P       |
| 2.7.1           | <p>C: Replace the subclause as follows:</p> <p>Basic requirements</p> <p>To protect against excessive current, short-circuits and earth faults in primary circuits, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):</p> <p>a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;</p> <p>b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;</p> <p>c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.</p> <p>If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.</p> | Replaced.                     | P       |
|                 | S (GB): To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, protective device shall be included as integral parts of the direct plug-in equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not direct plug-in equipment. | N/A     |
| 2.7.2           | C: Void.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               | N/A     |
| 2.10.2          | C: Replace in the first line "(see also 1.4.7)" by "(see also 1.4.8)".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Replace.                      | P       |

| Clause   | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Result - Remark                 | Verdict |
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| 2.10.3.1 | S (NO): Due to the IT power distribution system used (see annex V, Fig. V.7), the a.c. mains supply voltage is considered to be equal to the line-to-line voltage and will remain at 230 V in case of a single earth fault                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Considered.                     | P       |
| 3.2.1.1  | <p>S (CH): Supply cords of equipment having a rated current not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:</p> <p>SEV 6532-2.1991, Plug type 15, 3P+N+PE 250/400 V, 10 A<br/> SEV 6533-2.1991, Plug type 11, L+N 250 V, 10 A<br/> SEV 6534-2.1991, Plug type 12, L+N+PE 250 V, 10 A</p> <p>In general, EN 60309 applies for plugs for currents exceeding 10A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:</p> <p>SEV 5932-2.1998, Plug type 25, 3L+N+PE 230/400 V, 16 A<br/> SEV 5933-2.1998, Plug type 21, L+N 250 V, 16 A<br/> SEV 5934-2.1998, Plug type 23, L+N+PE 250 V, 16 A</p> | The power cord is not provided. | N/A     |
|          | <p>S (DK): Supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.</p> <p>Class I equipment provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.</p> <p>If ply-phase equipment and single-phase equipment having a rated current exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.</p>                                                                      | Ditto.                          | N/A     |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Result - Remark | Verdict |
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|        | <p>S (ES): Supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.</p> <p>Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.</p> <p>Class I equipment provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.</p> <p>If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.</p> | Ditto.          | N/A     |
|        | <p>S (GB): Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 – The Plugs and Socket etc. (Safety) Regulations 1994, unless exempted by those regulations.</p> <p>NOTE – 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.</p>                                                                                                                                                                                              | Ditto.          | N/A     |
|        | <p>S (IE): Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 – National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.</p>                                                                                                                                                                                                                                                                                                                        | Ditto.          | N/A     |
| 3.2.3  | C: Delete Note 1 and in Table 3A, delete the conduit sizes in parentheses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Delete.         | N/A     |

| Clause                          | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Result - Remark                 | Verdict            |                               |                          |                                |                         |                                 |     |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------|-------------------------------|--------------------------|--------------------------------|-------------------------|---------------------------------|-----|
| 3.2.5.1                         | <p>C: Replace</p> <p>"60245 IEC 53" by "H05 RR-F";</p> <p>"60227 IEC 52" by "H03 VV-F or H03 VVH2-F";</p> <p>"60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".</p> <p>In Table 3B, replace the first four lines by the following:</p> <table><tr><td>Up to and including 6</td><td>0,75<sup>1)</sup></td></tr><tr><td>Over 6 up to and including 10</td><td>(0,75)<sup>2)</sup> 1,0</td></tr><tr><td>Over 10 up to and including 16</td><td>(1,0)<sup>3)</sup> 1,5</td></tr></table> <p>In the Conditions applicable to Table 3B delete the words "in some countries" in condition <sup>1)</sup>.</p> <p>In Note 1, applicable to Table 3B, delete the second sentence.</p> | Up to and including 6           | 0,75 <sup>1)</sup> | Over 6 up to and including 10 | (0,75) <sup>2)</sup> 1,0 | Over 10 up to and including 16 | (1,0) <sup>3)</sup> 1,5 | The power cord is not provided. | N/A |
| Up to and including 6           | 0,75 <sup>1)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                    |                               |                          |                                |                         |                                 |     |
| Over 6 up to and including 10   | (0,75) <sup>2)</sup> 1,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                    |                               |                          |                                |                         |                                 |     |
| Over 10 up to and including 16  | (1,0) <sup>3)</sup> 1,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                    |                               |                          |                                |                         |                                 |     |
| 3.2.5.1                         | <p>S (GB): A power supply cord with conductor of 1,25 mm<sup>2</sup> is allowed for equipment with a rated current over 10 A and up to and including 13 A.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | The power cord is not provided. | N/A                |                               |                          |                                |                         |                                 |     |
| 3.3.4                           | <p>C: In table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:</p> <table><tr><td>"Over 10 up to and including 16</td><td></td><td></td></tr></table> <p>Delete the fifth line: conductor sizes for 13 to 16 A.</p>                                                                                                                                                                                                                                                                                                                                                                                                        | "Over 10 up to and including 16 |                    |                               |                          | N/A                            |                         |                                 |     |
| "Over 10 up to and including 16 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                    |                               |                          |                                |                         |                                 |     |
| 3.3.4                           | <p>S (GB): The range of conductor sizes of flexible cords to be accepted by terminals for equipment with A RATED CURRENT of over 10 A up to and including 13 A is:</p> <p>- 1,25 mm<sup>2</sup> to 1,5 mm<sup>2</sup> nominal cross-sectional area.</p>                                                                                                                                                                                                                                                                                                                                                                                                                | The power cord is not provided. | N/A                |                               |                          |                                |                         |                                 |     |
| 4.3.6                           | <p>S (GB): The torque test is performed using a socket outlet complying with BS 1363 and the plug part OF DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C.</p>                                                                                                                                                                                                                                                                                                                                                                | Not direct plug-in equipment.   | N/A                |                               |                          |                                |                         |                                 |     |
|                                 | <p>S (IE): DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 – National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.</p>                                                                                                                                                                                                                                                                                                                                                                                 | Ditto.                          | N/A                |                               |                          |                                |                         |                                 |     |
| 4.3.13.6                        | <p>C: Add the following note:</p> <p>NOTE Attention is drawn to 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz. Standards taking into account this recommendation are currently under development.</p>                                                                                                                                                                                                                                                                                                                                                                              |                                 | N/A                |                               |                          |                                |                         |                                 |     |
| 6.1.2.1                         | <p>S (FI, NO, SE): Add the following text between the first and second paragraph:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No TNV circuits provided.       | N/A                |                               |                          |                                |                         |                                 |     |

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Result - Remark           | Verdict |
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|         | <p>If this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none"> <li>- two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> <li>- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul> <p>If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES AND CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition</p> <ul style="list-style-type: none"> <li>- passes the tests and inspection criteria of 2.10.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.7 shall be performed using 1,5 kV), and</li> <li>- is subject to ROUTING TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul> <p>It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994, subclass Y2.</p> <p>A capacitor classified Y3 according to EN 132400:1994, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> <li>- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 132400, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950:2000, 6.2.2.1;</li> <li>- the additional testing shall be performed on all the test specimens as described in EN 132400;</li> <li>- the impulse test of 2,5 kV is to be performed before the endurance test in EN 132400, in the sequence of tests as described in EN 132400.</li> </ul> |                           |         |
| 6.1.2.2 | <p>S (FI, NO, SE): The exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT and PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a service person.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No TNV circuits provided. | N/A     |

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Result - Remark               | Verdict |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|
| 7.1     | S (FI, NO, SE): Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply with the term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.                                                                                                                                                                                                                                                                                                                                                                                                      | No cable distribution system. | N/A     |
| G.2.1   | S (NO): Due to the IT power distribution system used (see annex V, Fig. V.7), the A.C. MAINS SUPPLY voltage is considered to be equal to the line-to-line voltage, and will remain at 230 V in case of a single earth fault.                                                                                                                                                                                                                                                                                                                                                                | Considered.                   | P       |
| Annex H | C: Replace the last paragraph of this annex by:<br>At any point 10 cm from the surface of the operator access area, the dose rate shall not exceed 1 $\mu$ Sv/h (0,1 mR/h) (see note). Account is taken of the background level.<br>Replace the notes as follows:<br>NOTE These values appear in Directive 96/29/Euratom.<br>Delete Note 2.                                                                                                                                                                                                                                                 |                               | N/A     |
| Annex P | C: Replace the text of this annex by:<br>See annex ZA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Replace.                      | P       |
| Annex Q | C: Replace the title of IEC 61032 by "Protection of persons and equipment by enclosures – Probes for verification".<br>Add the following notes for the standards indicated:<br>IEC 60127 NOTE Harmonized as EN 60127 (Series) (not modified)<br>IEC 60269-2-1 NOTE Harmonized as HD 630.2.1 S4:2000 (modified)<br>IEC 60529 NOTE Harmonized as EN 60529:1991 (not modified)<br>IEC 61032 NOTE Harmonized as EN 61032:1998 (not modified)<br>IEC 61140 NOTE Harmonized as EN 61140:2001 (not modified)<br>ITU-T Recommendation K.31<br>NOTE in Europe, the suggested document is EN 50083-1. |                               | P       |

| Clause                                                          | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Result - Remark | Verdict       |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
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| Annex ZA                                                        | <p>C: NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR RELEVANT EUROPEAN PUBLICATIONS</p> <p>This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).</p> <p>NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.</p> <table><tr><td>—</td><td>IEC 60050-151</td></tr><tr><td>—</td><td>IEC 60050-195</td></tr><tr><td>EN 60065:1998 + corr. June 1999</td><td>IEC 60065 (mod):1998</td></tr><tr><td>EN 60073:1996</td><td>IEC 60073:1996</td></tr><tr><td>HD 566 S1:1990</td><td>IEC 60085:1984</td></tr><tr><td>HD 214 S2:1980</td><td>IEC 60112:1979</td></tr><tr><td>HD 611.4.1.S1:1992</td><td>IEC 60216-4-1:1990</td></tr><tr><td>HD 21 <sup>1)</sup> Series</td><td>IEC 60227 (mod) Series</td></tr><tr><td>HD 22 <sup>2)</sup> Series</td><td>IEC 60245 (mod) Series</td></tr><tr><td>EN 60309 Series</td><td>IEC 60309 Series</td></tr><tr><td>EN 60317-43:1997</td><td>IEC 60317-43:1997</td></tr><tr><td>EN 60320 Series</td><td>IEC 60320 (mod) Series</td></tr><tr><td>HD 384.3 S2:1995</td><td>IEC 60364-3 (mod):1993</td></tr><tr><td>HD 384.4.41 S2:1996</td><td>IEC 60364-4-41 (mod):1992 <sup>3)</sup></td></tr><tr><td>EN 132400:1994 <sup>4)</sup></td><td>IEC 60384-14:1993</td></tr><tr><td>+ A2:1998 + A3:1998 + A4:2001</td><td></td></tr><tr><td>EN 60417-1</td><td>IEC 60417-1</td></tr><tr><td>HD 625.1 S1:1996 + corr. Nov. 1996</td><td>IEC 60664-1 (mod):1992</td></tr><tr><td>EN 60695-2-2:1994</td><td>IEC 60695-2-2:1991</td></tr><tr><td>EN 60695-2-11:2001</td><td>IEC 60695-2-11:2000</td></tr><tr><td>—</td><td>IEC 60695-2-20:1995</td></tr><tr><td>—</td><td>IEC 60695-10-2:1995</td></tr><tr><td>—</td><td>IEC 60695-11-3:2000</td></tr><tr><td>—</td><td>IEC 60695-11-4:2000</td></tr><tr><td>EN 60695-11-10:1999</td><td>IEC 60695-11-10:1999</td></tr><tr><td>EN 60695-11-20:1999</td><td>IEC 60695-11-20:1999</td></tr><tr><td>EN 60730-1:2000</td><td>IEC 60730-1:1999 (mod)</td></tr><tr><td>EN 60825-1:1994 + corr. Febr. 1995 + A11:1996 + corr. July 1997</td><td>IEC 60825-1:1993</td></tr><tr><td>EN 60825-2:2000</td><td>IEC 60825-2:2000</td></tr><tr><td>—</td><td>IEC 60825-9:1999</td></tr><tr><td>EN 60851-3:1996</td><td>IEC 60851-3:1996</td></tr><tr><td>EN 60851-5:1996</td><td>IEC 60825-5:1996</td></tr><tr><td>EN 60851-6:1996</td><td>IEC 60851-6:1996</td></tr><tr><td>—</td><td>IEC 60885-1:1987</td></tr><tr><td>EN 60990:1999</td><td>IEC 60990:1999</td></tr><tr><td>—</td><td>IEC 61058-1:2000</td></tr><tr><td>EN 61965:2001</td><td>IEC 61965:2000</td></tr><tr><td>EN ISO 178:1996</td><td>ISO 178:1993</td></tr><tr><td>EN ISO 179 Series</td><td>ISO 179 Series</td></tr><tr><td>EN ISO 180:2000</td><td>ISO 180:1993</td></tr><tr><td>—</td><td>ISO 261:1998</td></tr><tr><td>—</td><td>ISO 262:1998</td></tr></table> | —               | IEC 60050-151 | — | IEC 60050-195 | EN 60065:1998 + corr. June 1999 | IEC 60065 (mod):1998 | EN 60073:1996 | IEC 60073:1996 | HD 566 S1:1990 | IEC 60085:1984 | HD 214 S2:1980 | IEC 60112:1979 | HD 611.4.1.S1:1992 | IEC 60216-4-1:1990 | HD 21 <sup>1)</sup> Series | IEC 60227 (mod) Series | HD 22 <sup>2)</sup> Series | IEC 60245 (mod) Series | EN 60309 Series | IEC 60309 Series | EN 60317-43:1997 | IEC 60317-43:1997 | EN 60320 Series | IEC 60320 (mod) Series | HD 384.3 S2:1995 | IEC 60364-3 (mod):1993 | HD 384.4.41 S2:1996 | IEC 60364-4-41 (mod):1992 <sup>3)</sup> | EN 132400:1994 <sup>4)</sup> | IEC 60384-14:1993 | + A2:1998 + A3:1998 + A4:2001 |  | EN 60417-1 | IEC 60417-1 | HD 625.1 S1:1996 + corr. Nov. 1996 | IEC 60664-1 (mod):1992 | EN 60695-2-2:1994 | IEC 60695-2-2:1991 | EN 60695-2-11:2001 | IEC 60695-2-11:2000 | — | IEC 60695-2-20:1995 | — | IEC 60695-10-2:1995 | — | IEC 60695-11-3:2000 | — | IEC 60695-11-4:2000 | EN 60695-11-10:1999 | IEC 60695-11-10:1999 | EN 60695-11-20:1999 | IEC 60695-11-20:1999 | EN 60730-1:2000 | IEC 60730-1:1999 (mod) | EN 60825-1:1994 + corr. Febr. 1995 + A11:1996 + corr. July 1997 | IEC 60825-1:1993 | EN 60825-2:2000 | IEC 60825-2:2000 | — | IEC 60825-9:1999 | EN 60851-3:1996 | IEC 60851-3:1996 | EN 60851-5:1996 | IEC 60825-5:1996 | EN 60851-6:1996 | IEC 60851-6:1996 | — | IEC 60885-1:1987 | EN 60990:1999 | IEC 60990:1999 | — | IEC 61058-1:2000 | EN 61965:2001 | IEC 61965:2000 | EN ISO 178:1996 | ISO 178:1993 | EN ISO 179 Series | ISO 179 Series | EN ISO 180:2000 | ISO 180:1993 | — | ISO 261:1998 | — | ISO 262:1998 |  | P |
| —                                                               | IEC 60050-151                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | IEC 60050-195                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60065:1998 + corr. June 1999                                 | IEC 60065 (mod):1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60073:1996                                                   | IEC 60073:1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| HD 566 S1:1990                                                  | IEC 60085:1984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| HD 214 S2:1980                                                  | IEC 60112:1979                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| HD 611.4.1.S1:1992                                              | IEC 60216-4-1:1990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| HD 21 <sup>1)</sup> Series                                      | IEC 60227 (mod) Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| HD 22 <sup>2)</sup> Series                                      | IEC 60245 (mod) Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60309 Series                                                 | IEC 60309 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60317-43:1997                                                | IEC 60317-43:1997                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60320 Series                                                 | IEC 60320 (mod) Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| HD 384.3 S2:1995                                                | IEC 60364-3 (mod):1993                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| HD 384.4.41 S2:1996                                             | IEC 60364-4-41 (mod):1992 <sup>3)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 132400:1994 <sup>4)</sup>                                    | IEC 60384-14:1993                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| + A2:1998 + A3:1998 + A4:2001                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60417-1                                                      | IEC 60417-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| HD 625.1 S1:1996 + corr. Nov. 1996                              | IEC 60664-1 (mod):1992                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60695-2-2:1994                                               | IEC 60695-2-2:1991                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60695-2-11:2001                                              | IEC 60695-2-11:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | IEC 60695-2-20:1995                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | IEC 60695-10-2:1995                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | IEC 60695-11-3:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | IEC 60695-11-4:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60695-11-10:1999                                             | IEC 60695-11-10:1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60695-11-20:1999                                             | IEC 60695-11-20:1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60730-1:2000                                                 | IEC 60730-1:1999 (mod)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60825-1:1994 + corr. Febr. 1995 + A11:1996 + corr. July 1997 | IEC 60825-1:1993                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60825-2:2000                                                 | IEC 60825-2:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | IEC 60825-9:1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60851-3:1996                                                 | IEC 60851-3:1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60851-5:1996                                                 | IEC 60825-5:1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60851-6:1996                                                 | IEC 60851-6:1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | IEC 60885-1:1987                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 60990:1999                                                   | IEC 60990:1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | IEC 61058-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN 61965:2001                                                   | IEC 61965:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN ISO 178:1996                                                 | ISO 178:1993                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN ISO 179 Series                                               | ISO 179 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| EN ISO 180:2000                                                 | ISO 180:1993                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | ISO 261:1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |
| —                                                               | ISO 262:1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |               |   |               |                                 |                      |               |                |                |                |                |                |                    |                    |                            |                        |                            |                        |                 |                  |                  |                   |                 |                        |                  |                        |                     |                                         |                              |                   |                               |  |            |             |                                    |                        |                   |                    |                    |                     |   |                     |   |                     |   |                     |   |                     |                     |                      |                     |                      |                 |                        |                                                                 |                  |                 |                  |   |                  |                 |                  |                 |                  |                 |                  |   |                  |               |                |   |                  |               |                |                 |              |                   |                |                 |              |   |              |   |              |  |   |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Result - Remark                                                                                                                                                                           | Verdict |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|        | EN ISO 527 Series<br>—<br>EN ISO 4892 Series<br>—<br>EN ISO 8256:1996<br>—<br>EN ISO 9773:1998<br>—<br>—<br>1) The HD 21 series is related to, but not directly equivalent with the IEC 60227 series<br>2) The HD 22 series is related to, but not directly equivalent with the IEC 60245 series<br>3) IEC 60364-4-41:1992 is superseded by IEC 60364-4-41:2001<br>4) EN 132400, Sectional Specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains (Assessment level D), and its amendments are related to, but not directly equivalent to IEC 60384-14 | ISO 527 Series<br>ISO 386:1984<br>ISO 4892 Series<br>ISO 7000:1989<br>ISO 8256:1990<br>ISO 9772:1994<br>ISO 9773:1998<br>ITU-T:1988 Recommendation K.17<br>ITU-T:2000 Recommendation K.21 |         |

| Clause | Requirement - Test | Result - Remark | Verdict |
|--------|--------------------|-----------------|---------|
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| <p align="center"><b>ATTACHMENT TO TEST REPORT IEC 60950-1</b><br/> <b>NATIONAL DIFFERENCES</b><br/> Information technology equipment – Safety –<br/> Part 1: General requirements</p> |  |  |  |
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|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----|
| <b>Australia (AU)</b>                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |     |
| <b>National standard reference.....: AS/NZS 60950.1:2003</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |     |
| ZZ1                                                          | <b>INTRODUCTION</b><br>This Annex sets out variations between this Standard and IEC 60950-1:2001. These variations indicate national variations for purposes of the IECEE CB Scheme and will be published in the IECEE CB Bulletin. These variations are indicated within the body of the Standard.                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                      | —   |
| ZZ2                                                          | <b>VARIATIONS</b><br>The variations are as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                      | —   |
| 1.2                                                          | Between the definitions for 'Person, service' and 'Range, rated frequency' insert the following: I ignition source 1.2.12.201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Not considered.                                                                      | N/A |
| 1.2.12.15                                                    | After the definition of 1.2.12.15, add the following:<br>1.2.12.201 potential ignition source: Possible fault which can start a fire if the open-circuit voltage measured across an interruption or faulty contact exceeds a value of 50 V (peak) a.c. or d.c. and the product of the peak value of this voltage and the measured r.m.s current under normal operating conditions exceeds 15 VA.<br>Such a faulty contact or interruption in an electrical connection includes those which may occur in conductive patterns on printed boards.<br>NOTE 201 An electronic protection circuit may be used to prevent such a fault from becoming a POTENTIAL IGNITION SOURCE.<br>NOTE 202 This definition is from AS/NZS 60065:2003. | Ditto.                                                                               | N/A |
| 1.5.1                                                        | Add the following to the end of first paragraph: 'or the relevant Australian/New Zealand Standard'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | When within the scope of relevant standard clearly, it comply with the requirements. | P   |
| 1.5.2.                                                       | Add the following to the end of first and third dash items: 'or the relevant Australian/New Zealand Standard'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ditto.                                                                               | P   |
| 2.1                                                          | Delete the Note.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Delete.                                                                              | P   |
| 3.2.3                                                        | Delete Note 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Not permanently connected equipment.                                                 | N/A |
| 3.2.5.1                                                      | Modify Table 3B as follows:<br>Delete the first four rows and replace with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Power cord is not provided.                                                          | N/A |

| Clause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                          | Result - Remark                                                       | Verdict                      |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------|-------------------------|--|----------------------------------------------|-----------------------------------------------------------------------|--------------------------------|-------------------|--------------------------------|------|----------|---------------------------------|----------------------|----------|--------------------------------|---------------------|----------|--|-----|--------|---|
| <table><tr><td rowspan="3">RATED CURRENT of equipment A</td><td colspan="2">Minimum conductor sizes</td></tr><tr><td>Nominal cross-sectional area mm<sup>2</sup></td><td>AWG or kcmil [cross-sectional area in mm<sup>2</sup>]<br/>See note 2</td></tr><tr><td>Over 0.2 up to and including 3</td><td>0,5 <sup>1)</sup></td></tr><tr><td>Over 3 up to and including 7.5</td><td>0,75</td><td>18 [0,8]</td></tr><tr><td>Over 7.5 up to and including 10</td><td>(0,75) <sup>2)</sup></td><td>16 [1,3]</td></tr><tr><td>Over 10 up to and including 16</td><td>(1,0) <sup>3)</sup></td><td>16 [1,3]</td></tr><tr><td></td><td>1,5</td><td>14 [2]</td></tr></table> <p>Replace footnote 1) with the following:</p> <p><sup>1)</sup> This nominal cross-sectional area is only allowed for Class II appliances if the length of the power supply cord, measured between the point where the cord, or cord guard, enters the appliance, and the entry to the plug does not exceed 2 m (0.5 mm2 three-core supply flexible cords are not permitted; see AS/NZS 3191).</p> <p>Delete Note 1.</p> |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                       | RATED CURRENT of equipment A | Minimum conductor sizes |  | Nominal cross-sectional area mm <sup>2</sup> | AWG or kcmil [cross-sectional area in mm <sup>2</sup> ]<br>See note 2 | Over 0.2 up to and including 3 | 0,5 <sup>1)</sup> | Over 3 up to and including 7.5 | 0,75 | 18 [0,8] | Over 7.5 up to and including 10 | (0,75) <sup>2)</sup> | 16 [1,3] | Over 10 up to and including 16 | (1,0) <sup>3)</sup> | 16 [1,3] |  | 1,5 | 14 [2] | P |
| RATED CURRENT of equipment A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Minimum conductor sizes                                                                                                                                                                                                                                                                                                                                                                     |                                                                       |                              |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Nominal cross-sectional area mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                | AWG or kcmil [cross-sectional area in mm <sup>2</sup> ]<br>See note 2 |                              |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Over 0.2 up to and including 3                                                                                                                                                                                                                                                                                                                                                              | 0,5 <sup>1)</sup>                                                     |                              |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
| Over 3 up to and including 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,75                                                                                                                                                                                                                                                                                                                                                                                        | 18 [0,8]                                                              |                              |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
| Over 7.5 up to and including 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (0,75) <sup>2)</sup>                                                                                                                                                                                                                                                                                                                                                                        | 16 [1,3]                                                              |                              |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
| Over 10 up to and including 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (1,0) <sup>3)</sup>                                                                                                                                                                                                                                                                                                                                                                         | 16 [1,3]                                                              |                              |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1,5                                                                                                                                                                                                                                                                                                                                                                                         | 14 [2]                                                                |                              |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
| 4.1.201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Add the following after the last Paragraph of Clause 4.1:<br><br>4.1.201 Display devices used for television purposes Display devices which may be used for television purposes, with a mass of 7 kg or more, shall comply with the requirements for stability and mechanical hazards, including the additional stability requirements for television receivers, specified in AS/NZS 60065. | Not considered.                                                       | N/A                          |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
| 4.3.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Replace paragraph three with:<br><br>Equipment with a plug portion, suitable for insertion into a 10 A 3-pin flat-pin socket-outlet complying with AS/NZS 3112, shall comply with the requirements in AS/NZS 3112 for equipment with integral pins for insertion into socket-outlets.                                                                                                       | Not considered.                                                       | N/A                          |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
| 4.3.13.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Add the following to the end of the first paragraph:<br>' , or AS/NZS 2211.1' .“.                                                                                                                                                                                                                                                                                                           | Added.                                                                | P                            |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |
| 4.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Add the following paragraph:<br><br>For alternative tests refer to Clause 4.7.201.                                                                                                                                                                                                                                                                                                          | Added the paragraph.                                                  | P                            |                         |  |                                              |                                                                       |                                |                   |                                |      |          |                                 |                      |          |                                |                     |          |  |     |        |   |

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Result - Remark                                                              | Verdict |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|
| 4.7.201 | <p>Add the following after Clause 4.7.3.6.</p> <p>4.7.201 Resistance to fire – Alternative tests</p> <p>4.7.201.1 General</p> <p>Parts of non-metallic material shall be resistant to ignition and spread of fire.</p> <p>This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames originating from inside the apparatus, or the following:</p> <p>(a) Components that are contained in an enclosure having a flammability category of FV-0 according to AS/NZS 4695.707 and having openings only for the connecting wires filling the openings completely, and for ventilation not exceeding 1 mm in width regardless of length.</p> | Not apply for; materials have suitable flame class including fire enclosure. | N/A     |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Result - Remark | Verdict |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
|        | <p>(b) The following parts which would contribute negligible fuel to a fire:</p> <ul style="list-style-type: none"> <li>- small mechanical parts, the mass of which does not exceed 4 g, such as mounting parts, gears, cams, belts and bearings;</li> <li>- small electrical components, such as capacitors with a volume not exceeding 1 750 mm<sup>3</sup>, integrated circuits, transistors and optocoupler packages, if these components are mounted on material of flammability category FV-1, or better, according to AS/NZS 4695.707.</li> </ul> <p>NOTE In considering how to minimize propagation of fire and what 'small parts' are, account should be taken of the cumulative effect of small parts adjacent to each other for the possible effect of propagating fire from one part to another.</p> <p>Compliance shall be checked by the tests of 4.7.201.2, 4.7.201.3, 4.7.201.4 and 4.7.201.5.</p> <p>For the base material of printed boards, compliance shall be checked by the test of 4.7.201.5.</p> <p>The tests shall be carried out on parts of non-metallic material which have been removed from the apparatus. When the glow-wire test is carried out, the parts shall be placed in the same orientation as they would be in normal use.</p> <p>These tests are not carried out on internal wiring.</p> <p><b>4.7.201.2 Testing of non-metallic materials</b></p> <p>Parts of non-metallic material shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 550°C. Parts for which the glow-wire test cannot be carried out, such as those made of soft or foamy material, shall meet the requirements specified in ISO 9772 for category FH-3 material. The glow-wire test shall be not carried out on parts of material classified at least FH-3 according to ISO 9772 provided that the sample tested was not thicker than the relevant part.</p> <p><b>4.7.201.3 Testing of insulating materials</b></p> <p>Parts of insulating material supporting POTENTIAL IGNITION SOURCES shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 750°C.</p> |                 |         |

| Clause                        | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Result - Remark           | Verdict |              |                                                                                    |                         |                                                                                                                                                                            |     |                                                                                                                           |     |                                                                                                                                                                                                       |                               |                                                                                                                                     |  |  |
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|                               | <p>The test shall be also carried out on other parts of insulating material which are within a distance of 3mm of the connection.</p> <p>NOTE Contacts in components such as switch contacts are considered to be connections.</p> <p>For parts which withstand the glow-wire test but produce a flame, other parts above the connection within the envelope of a vertical cylinder having a diameter of 20 mm and a height of 50 mm shall be subjected to the needle-flame test. However, parts shielded by a barrier which meets the needle-flame test shall not be tested.</p> <p>The needle-flame test shall be made in accordance with AS/NZS 4695.2.2 with the following modifications:</p> <table><tr><td>Clause of AS/NZS 4695.2.2</td><td>Change</td></tr><tr><td>5 Severities</td><td>Replace with:<br/>The duration of application of the test flame shall be 30 s ±1 s.</td></tr><tr><td>8 Test procedure<br/>8.2</td><td>Replace the first sentence with:<br/>The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1.</td></tr><tr><td>8.4</td><td>The first paragraph does not apply.<br/>Addition:<br/>If possible, the flame shall be applied at least 10 mm from a corner.</td></tr><tr><td>8.5</td><td>Replace with:<br/>The test shall be made on one specimen. If the specimen does not withstand the test, the test may be repeated on two further specimens, both of which shall then withstand the test.</td></tr><tr><td>10 Evaluation of test results</td><td>Replace with:<br/>The duration of burning (tb) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15 s.</td></tr></table> | Clause of AS/NZS 4695.2.2 | Change  | 5 Severities | Replace with:<br>The duration of application of the test flame shall be 30 s ±1 s. | 8 Test procedure<br>8.2 | Replace the first sentence with:<br>The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1. | 8.4 | The first paragraph does not apply.<br>Addition:<br>If possible, the flame shall be applied at least 10 mm from a corner. | 8.5 | Replace with:<br>The test shall be made on one specimen. If the specimen does not withstand the test, the test may be repeated on two further specimens, both of which shall then withstand the test. | 10 Evaluation of test results | Replace with:<br>The duration of burning (tb) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15 s. |  |  |
| Clause of AS/NZS 4695.2.2     | Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |         |              |                                                                                    |                         |                                                                                                                                                                            |     |                                                                                                                           |     |                                                                                                                                                                                                       |                               |                                                                                                                                     |  |  |
| 5 Severities                  | Replace with:<br>The duration of application of the test flame shall be 30 s ±1 s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |         |              |                                                                                    |                         |                                                                                                                                                                            |     |                                                                                                                           |     |                                                                                                                                                                                                       |                               |                                                                                                                                     |  |  |
| 8 Test procedure<br>8.2       | Replace the first sentence with:<br>The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |         |              |                                                                                    |                         |                                                                                                                                                                            |     |                                                                                                                           |     |                                                                                                                                                                                                       |                               |                                                                                                                                     |  |  |
| 8.4                           | The first paragraph does not apply.<br>Addition:<br>If possible, the flame shall be applied at least 10 mm from a corner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |         |              |                                                                                    |                         |                                                                                                                                                                            |     |                                                                                                                           |     |                                                                                                                                                                                                       |                               |                                                                                                                                     |  |  |
| 8.5                           | Replace with:<br>The test shall be made on one specimen. If the specimen does not withstand the test, the test may be repeated on two further specimens, both of which shall then withstand the test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |         |              |                                                                                    |                         |                                                                                                                                                                            |     |                                                                                                                           |     |                                                                                                                                                                                                       |                               |                                                                                                                                     |  |  |
| 10 Evaluation of test results | Replace with:<br>The duration of burning (tb) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15 s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |         |              |                                                                                    |                         |                                                                                                                                                                            |     |                                                                                                                           |     |                                                                                                                                                                                                       |                               |                                                                                                                                     |  |  |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Result - Remark | Verdict |
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|        | <p>The needle-flame test shall not be carried out on parts of material classified as V-0 or V-1 according to IEC 60695-11-10, provided that the sample tested was not thicker than the relevant part.</p> <p><b>4.7.201.4 Testing in the event of non-extinguishing material</b></p> <p>If parts, other than enclosures, do not withstand the glow wire tests of 4.7.201.3, by failure to extinguish within 30 s after the removal of the glow-wire tip, the needle-flame test detailed in 4.7.201.3 shall be made on all parts of non-metallic material which are within a distance of 50 mm or which are likely to be impinged upon by flame during the tests of 4.7.201.3. Parts shielded by a separate barrier which meets the needle-flame test need not be tested.</p> <p>NOTE 1 - If the enclosure does not withstand the glow-wire test the equipment is considered to have failed to meet the requirements of Clause 4.7.201 without the need for consequential testing.</p> <p>NOTE 2 - If other parts do not withstand the glow-wire test due to ignition of the tissue paper and if this indicates that burning or glowing particles can fall onto an external surface underneath the equipment, the equipment is considered to have failed to meet the requirements of Clause 4.7.201 without the need for consequential testing.</p> <p>NOTE 3 - Parts likely to be impinged upon by the flame are considered to be those within the envelope of a vertical cylinder having a radius of 10 mm and a height equal to the height of the flame, positioned above the point of the material supporting, in contact with, or in close proximity to, connections.</p> <p><b>4.7.201.5 Testing of printed boards</b></p> <p>The base material of printed boards shall be subjected to the needle-flame test of Clause 4.7.201.3. The flame shall be applied to the edge of the board where the heat sink effect is lowest when the board is positioned as in normal use. The flame shall not be applied to an edge, consisting of broken perforations, unless the edge is less than 3 mm from a POTENTIAL IGNITION SOURCE.</p> <p>The test is not carried out if the —</p> <ul style="list-style-type: none"> <li>- Printed board does not carry any POTENTIAL IGNITION SOURCE;</li> <li>- Base material of printed boards, on which the available apparent power at a connection exceeds 15 VA operating at a voltage exceeding 50 V and equal or less than 400 V (peak) a.c. or d.c. under normal operating conditions, is of flammability category FV-1 or better according to AS/NZS 4695.707, or the printed boards are protected by an enclosure meeting the flammability category FV-0 according to AS/NZS 4695.707, or made of metal, having openings only for connecting wires which fill the openings completely;</li> <li>- or Base material of printed boards, on which the available apparatus power at a connection exceeds 15 VA operating at a voltage exceeding 400 V (peak) a.c. or d.c. under normal operating conditions, and base material of printed boards supporting spark gaps which provides protection against overvoltages, is of flammability category FV-0 according to AS/NZS 4695.707 or the printed boards are contained in a metal enclosure, having openings only for connecting wires which fill the openings completely.</li> </ul> <p>Compliance shall be determined using the smallest thickness of the material.</p> <p>NOTE – Available apparent power is the maximum apparent power which can be drawn from the supplying circuit through a resistive load whose value is chosen to maximise the apparent power for more than 2 min when the circuit supplied is disconnected.</p> |                 | N/A     |

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Result - Remark | Verdict |
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| 6.2.2   | <p>Add the symbol <b>NZ</b> in the right hand margin beside the first paragraph.</p> <p>Add the following after the first paragraph:</p> <p>In Australia (this variation does not apply in New Zealand), compliance with 6.2.2 shall be checked by the tests of both 6.2.2.1 and 6.2.2.2.</p> <p>Delete the note.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Not apply for.  | N/A     |
| 6.2.2.1 | <p>Add the symbol <b>NZ</b> in the right hand margin beside the first paragraph including Note 1.</p> <p>Delete Note 2</p> <p>Add the following after the first paragraph:</p> <p>In Australia (this variation does not apply in New Zealand), the electrical separation is subjected to 10 impulses of alternating polarity, using the impulse test generator of annex N for 10/700µs impulses. The interval between successive impulses is 60 s and the initial voltage, <math>U_c</math>, is:</p> <ul style="list-style-type: none"> <li>- for 6.2.1 a): 7.0 kV for hand-held telephones and for headsets and 2.5 kV for other equipment; and</li> <li>- for 6.2.1 b) and 6.2.1 c): 1.5 kV.</li> </ul> <p>NOTE 201 – The 7 kV impulse simulates lightning surges on typical rural and semi-rural network lines.</p> <p>NOTE 202 – The value of 2.5 kV for 6.2.1 a) was chosen to ensure the adequacy of the insulation concerned and does not necessarily simulate likely overvoltages.</p> | Ditto.          | N/A     |
| 6.2.2.2 | <p>Add the symbol <b>NZ</b> in the right hand margin beside the second paragraph.</p> <p>Delete the Note.</p> <p>Add the following after the second paragraph:</p> <p>In Australia (this variation does not apply in New Zealand), the a.c. test voltage is:</p> <ul style="list-style-type: none"> <li>- for 6.2.1 a): 3 kV; and</li> <li>- for 6.2.1 b) and 6.2.1 c): 1.5 kV.</li> </ul> <p>NOTE 201 – Where there are capacitors across the insulation under test, it is recommended that d.c. test voltages are used.</p> <p>NOTE 202 – The 3 kV and 1.5 kV values have been determined considering the low frequency induced voltages from the power supply distribution system.</p>                                                                                                                                                                                                                                                                                                      | Ditto.          | N/A     |

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Result - Remark | Verdict |
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| 7.2     | <p>Add the following before the first paragraph:</p> <p>Equipment providing functions that fall only within the scope of AS/NZS 60065 and that incorporate a PSTN interface, are not required to comply with this Clause where the only ports provided on the equipment, in addition to a coaxial cable connection and a PSTN interface, are audio or video ports and analogue or data ports not intended to be used for telecommunications purposes.</p>                                                             | Ditto           | N/A     |
| Annex P | <p>Add the following Normative References to Annex P:</p> <p>IEC 60065, Audio, Video and similar electronic apparatus—Safety requirements</p> <p>AS/NZS 3191, Approval and test specification—Electric flexible cords</p> <p>AS/NZS 3112, Approval and test specification—Plugs and socket-outlets</p> <p>AS/NZS 4695.707, Fire hazard testing of electrotechnical products—Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source</p> | Ditto           | N/A     |
| Index   | <p>Between the entries for 'polyimide insulating material' and 'powder' insert the following: potential ignition source 1.12.201, 4.7.201.3, 4.7.201.5</p>                                                                                                                                                                                                                                                                                                                                                            | Ditto           | N/A     |

| Clause                                                                       | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Result - Remark                    | Verdict |
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| <b>Canada (CA)</b>                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |         |
| <b>National standard reference.....: CAN/CSA C22.2 No. 60950-1/UL60950-1</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |         |
|                                                                              | <p>Canada and the United States of America have adopted a single, bi-national standard, CAN/CSA C22.2 No. 60950-1/UL60950-1, First Edition, which is based on IEC 60950-1, First Edition. Effective April 1, 2003, this standard may be used for product certification immediately, however, the previous version of the standard may also be used until April 1, 2005.</p> <p>Note: The previous version is CAN/CSA C22.2 No.60950-00/UL 60950 Third Edition, based on IEC 60950, 3<sup>rd</sup> Edition. Refer to the "IEC 60950, 3rd Edition, CA" section of this CB bulletin for the national differences in this version of the standard.</p> <p>This bi-national standard should be consulted for further details on the Special National Conditions and Other Differences summarized below.</p> |                                    | —       |
| <b>SPECIAL NATIONAL CONDITIONS</b>                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    | —       |
|                                                                              | <p>Those requirements are identified as Special National Conditions since they are directly related to the Canadian Electrical code (CEC), Part 1 and the Canadian Building Code, which are referenced in legislation and which form the basis for the rules and practices followed in electrical and other building installations in Canada.</p> <p>Notes:</p> <ul style="list-style-type: none"> <li>● "CEC" denotes Canadian Electrical Code.</li> <li>● "NEC" denotes US National Electrical Code.</li> <li>● Due to common Canadian and US national differences, products that are in compliance with the Canadian national differences are also considered in compliance with the US national differences.</li> </ul>                                                                            |                                    | —       |
| 1.1.1                                                                        | All equipment is to be designed to allow installation in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, the Canadian Electrical Code (CEC), Part I, CAN/CSA C22.1, and when applicable, the National Electrical Safety Code, IEEE C2. Also, unless marked or otherwise identified, installation is allowed per the Standard for the Protection of Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75.                                                                                                                                                                                                                                                                                                                                                                      | See last page.                     | N/A     |
| 1.4.14                                                                       | For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Considered.                        | P       |
| 1.5.5                                                                        | <p>For lengths exceeding 3.05 m, external interconnecting flexible cord and cable assemblies are required to be a suitable cable type (e.g. DP, CL2) specified in the NEC.</p> <p>For lengths 3.05 m or less, external interconnecting flexible cord and cable assemblies that are not types specified in the NEC are required to have special construction features and identification markings.</p>                                                                                                                                                                                                                                                                                                                                                                                                  | No such cord or cable is provided. | N/A     |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Result - Remark                                                                    | Verdict |
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| 1.7.1  | Equipment for use on a.c. mains supply systems with a neutral and more than one phase conductor (e.g. 120/240 V, 3-wire) require a special marking format for electrical ratings.<br><br>A voltage rating that exceeds an attachment plug cap rating is only permitted if it does not exceed the extreme operating conditions in Table 2 of CAN/CSA C22.2 No. 235, and if it is part of a range that extends into the Table 2 "Normal Operating Conditions." Likewise, a voltage rating shall not be lower than the specified "Normal Operating Conditions," unless it is part of a range that extends into the "Normal Operating Conditions." | Mains supply more than one phase is not intended to use for the equipment.         | N/A     |
| 2.5    | Where a fuse is used to provide Class 2, Limited Power Source, or TNV current limiting, it shall not be operator-accessible unless it is not interchangeable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Considered when evaluating the L.P.S.                                              | P       |
| 2.7.1  | Suitable NEC/CEC branch circuit protection rated at the maximum circuit rating is required for all standard supply outlets, receptacles and medium-base or smaller lampholders if the supply branch circuit protection is not suitable.<br><br>Power distribution transformers distributing power at 100 volts or more, and rated 10 kVA or more, require transformer overcurrent protection.                                                                                                                                                                                                                                                  | Not apply for.                                                                     | N/A     |
| 3.2    | Wiring methods (terminals, leads, etc.) used for the connection of the equipment to the mains shall be in accordance with the NEC/CEC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Connection with mains by using appliance inlet or connector.<br><br>See last page. | N/A     |
| 3.2.1  | Power supply cords are required to have attachment plugs rated not less than 125 percent of the rated current of the equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Power supply cord is not provided.                                                 | N/A     |
| 3.2.3  | Permanent connection of equipment to the mains supply by a power supply cord is not permitted, except for certain equipment, such as ATMs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Equipment is not permanent connection type.                                        | N/A     |
| 3.2.5  | Power supply cords are required to be no longer than 4.5 m in length.<br><br>Flexible power supply cords are required to be compatible with Article 400 of the NEC, and Tables 11 and 12 of the CEC.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Power supply cord is not provided.                                                 | N/A     |
| 3.2.9  | Permanently connected equipment is required to have a suitable wiring compartment and wire bending space.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Equipment is not permanent connection type.                                        | N/A     |
| 3.3    | Wiring terminals and associated spacings for field wiring connections shall comply with CSA C22.2 No. 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Not considered.                                                                    | N/A     |

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                          | Result - Remark                          | Verdict |
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| 3.3.3   | Wire binding screws are not permitted to attach conductors larger than 10 AWG (5.3 mm <sup>2</sup> ).                                                                                                                                                                                                                       | Not considered.                          | N/A     |
| 3.3.4   | Terminals for permanent wiring, including protective earthing terminals, are required to be suitable for U.S./Canadian wire gauge sizes, rated 125 percent of the equipment rating, and be specially marked when specified (1.7.7).                                                                                         | Not apply for.                           | N/A     |
| 3.4.2   | Motor control devices are required for cord-connected equipment with a motor if the equipment is rated more than 12 A, or if the motor has a nominal voltage rating greater than 120 V, or is rated more than 1/3 hp (locked rotor current over 43 A).                                                                      | No such device is used for equipment.    | N/A     |
| 3.4.8   | Vertically-mounted disconnect switches and circuit breakers are required to have the "on" position indicated by the handle in the up position.                                                                                                                                                                              | No such appliance for disconnect device. | N/A     |
| 3.4.11  | For computer room applications, equipment with battery systems capable of supplying 750 VA for five minutes are required to have a battery disconnect means that may be connected to the computer room remote power-off circuit.                                                                                            | Such concern is not considered.          | N/A     |
| 4.3.12  | The maximum quantity of flammable liquid stored in equipment is required to comply with NFPA 30.                                                                                                                                                                                                                            | No store device for flammable liquid.    | N/A     |
| 4.3.13  | Equipment with lasers is required to meet the Code of Federal Regulations 21 CFR 1040 (and the Canadian Radiation Emitting Devices Act, REDR C1370).                                                                                                                                                                        | Not considered.                          | N/A     |
| 4.7     | For computer room applications, automated information storage systems with combustible media greater than 27 cubic feet are required to have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.                                                  | Such condition is not considered.        | N/A     |
| 4.7.3.1 | For computer room applications, enclosures with combustible material measuring greater than 0.9 m <sup>2</sup> or a single dimension greater than 1.8 m are required to have a flame spread rating of 50 or less. For other applications, enclosures with the same dimensions require a flame spread rating of 200 or less. | Ditto.                                   | N/A     |
| Annex H | Equipment that produces ionizing radiation is required to comply with the Code of Federal Regulations, 21 CFR 1020 (and the Canadian Radiation Emitting Devices Act, REDR C1370).                                                                                                                                           | No ionizing radiation.                   | N/A     |

| Clause                                                                                                                                                                                                                                                                                                                          | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Result - Remark                                                                                                                                         | Verdict |
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| <b>OTHER DIFFERENCES</b><br>The following key national differences are based on requirements other than national regulatory requirements. The bi-national standard (CAN/CSA C22.2 No. 60950-1/UL 60950-1, First Edition) referenced above should be consulted for further details on the national differences summarized below. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                         | —       |
| 1.5.1                                                                                                                                                                                                                                                                                                                           | <p>Components of equipment must be suitable for the application, and must comply with the requirements of the equipment standard and the applicable national (Canadian and/or U.S.) component or material standards, as far as they may apply.</p> <p>The acceptance will be based on the following:</p> <ul style="list-style-type: none"> <li>A) A component Certified by a Canadian or U.S. National Certification Body (NCB) to a Canadian or U.S. component standard will be checked for correct application and use in accordance with its specified rating. Where necessary, it will also be subject to the applicable tests of the equipment standard.</li> <li>B) A component, which has a CB Test Certificate for compliance with a relevant IEC component standard, will be checked for correct application and use in accordance with its specified ratings. Where necessary, it will also be subject to the applicable tests of the equipment standard, and to the applicable tests of the Canadian and/or U.S. component or material standard, under the conditions occurring in the equipment.</li> <li>C) A component, which has no approval as in A) or B) above or which is used not in accordance with its specified ratings, will be subject to the applicable tests of the equipment standard, and to the applicable tests of the Canadian and/or U.S. component or material standard, under the conditions occurring in the equipment.</li> <li>D) Some components may require annual re-testing, which may be carried out by the manufacturer, CSA International or another laboratory</li> </ul> | <p>Critical components are complied with relevant IEC standards for correct application and use.</p> <p>See table 1.5.1 in test report for details.</p> | P       |
| 2.3.1                                                                                                                                                                                                                                                                                                                           | <p>For TNV-2 and TNV-3 circuits with other than ringing signals and with voltages exceeding 42.4 V<sub>peak</sub> or 60 V<sub>d.c.</sub>, the maximum acceptable current through a 2000 ohm resistor (or greater) connected across the voltage source with other loads disconnected is 7.1 mA peak or 30 mA d.c. under normal operating conditions.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Such condition is not considered.</p>                                                                                                                | N/A     |

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                       | Result - Remark                                                                                                | Verdict |
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| 2.3.2   | In the event of a single fault, the limits of 2.2.3 apply to SELV Circuits and accessible conductive parts.                                                                                                                                                                              | Not apply for.                                                                                                 | N/A     |
| 2.6.3.3 | When subject to impedance testing, protective earthing and bonding are required to be subjected to the additional test conditions specified.                                                                                                                                             | Considered the additional test condition.<br>Refer to table 2.6.3.4 or table 1.5.1 of IEC 60950-1 test report. | P       |
| 3.2.1.2 | Equipment connected to a centralized d.c. power system, and having one pole of the DC mains input terminal connected to the main protective earthing terminal in the equipment, is required to comply with special earthing, wiring, marking and installation instructions requirements. | Equipment not supplied from such power system.                                                                 | N/A     |
| 4.2.8.1 | Enclosures around CRTs with a face diameter of 160 mm or more are required to reduce the risk of injury due to the implosion of the CRT.                                                                                                                                                 | No appliance of CRT in the equipment.                                                                          | N/A     |
| 4.3.2   | Equipment with handles is required to comply with special loading tests.                                                                                                                                                                                                                 | Considered, see test report IEC 60950-1.                                                                       | P       |
| 5.1.8.3 | Equipment intended to receive telecommunication ringing signals is required to comply with a special touch current measurement tests.                                                                                                                                                    | Such special touch current is not complied with.                                                               | N/A     |
| 6.2.1   | Enamel coating on winding wire not considered electrical separation unless subjected to special investigation.                                                                                                                                                                           | No such winding in the equipment.                                                                              | N/A     |
| 6.4     | Equipment intended for connection to telecommunication network outside plant cable is required to be protected against overvoltage from power line crosses in accordance with 6.4 and Annex NAC.                                                                                         | Such condition was not considered.                                                                             | N/A     |
| 6.5     | Equipment connected to a telecommunications network and supplied with an earphone intended to be held against, or in the ear is required to comply with special acoustic pressure tests.                                                                                                 | Ditto.                                                                                                         | N/A     |
| M.2     | Continuous ringing signals up to 16 mA only are permitted if the equipment is subjected to special installation and performance restrictions.                                                                                                                                            | Not apply for.                                                                                                 | N/A     |

| Clause                                                 | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Result - Remark | Verdict |
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| <b>Japan (JP)</b>                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |         |
| <b>National standard reference.....: J60950-1(H22)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |         |
| 1.2.4.1                                                | <p>Add the following new NOTE.</p> <p>NOTE Even if the equipment is designed as Class I, the equipment is regarded as Class 0I equipment when a 2-pin adaptor with an earthing lead wire or a cord set having a 2-pin plug with an earthing lead wire is provided or recommended.</p>                                                                                                                                                                                                                                                                                                                                                                                           | Added.          | N/A     |
| 1.2.4.3A                                               | <p>Add the following new clause.</p> <p><b>1.2.4.3A CLASS 0I EQUIPMENT</b></p> <p>Equipment having attachment plug without earthing blade, where protection against electric shock is achieved by:</p> <ul style="list-style-type: none"> <li>- using BASIC INSULATION, and</li> <li>- providing externally an earth terminal or a lead wire for earthing in order to connect those conductive parts that might assume a HAZARDOUS VOLTAGES in the event of BASIC INSULATION fault to the PROTECTIVE EARTHING CONDUCTOR in the building wiring.</li> </ul> <p>NOTE Class 0I equipment may have a part constructed with Double Insulation or Reinforced Insulation. circuit.</p> | Added.          | N/A     |
| 1.3.2                                                  | <p>Add the following notes after the first paragraph:</p> <p>NOTE 1 Transportable or similar equipment that is relocated frequently for intended usage should not be designed as Class I or Class 0I equipment unless it is intended to be installed by service personnel.</p> <p>NOTE 2 Considering wiring circumstance in Japan, equipment intended to be installed where the provision for earthing connection is unlikely should not be designed as Class I or Class 0I equipment unless it is intended to be installed by service personnel.</p>                                                                                                                           | Added.          | N/A     |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Result - Remark | Verdict |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| 1.5.1  | <p>Replace the first paragraph with the following:</p> <p>Where safety is involved, components shall comply either with the requirements of this standard or with the safety aspects of the relevant JIS component standard or IEC component standards in case there is no applicable JIS component standard is available. However, in case a component that falls within the scope of the METI Ministerial ordinance (No. 85:1962) is properly used in accordance with its marked ratings, the requirements of 1.5.4, 2.8.7 and 3.2.5 apply, and in addition, a cord connector of power supply cord set matching with an appliance inlet specified in the standard sheets of IEC 60320-1, shall comply with relevant standard sheet of IEC 60320-1.</p> <p>Replace NOTE 1 with the following:</p> <p>NOTE 1 A JIS or an IEC component standard is considered relevant only if the component in question clearly falls within its scope.</p> | Replaced.       | P       |

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Result - Remark | Verdict |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| 1.5.2   | <p>Replace the first sentence in the first dashed paragraph with the following:</p> <ul style="list-style-type: none"> <li>- a component that has been demonstrated to comply with a JIS component standard harmonized with the relevant IEC component standard, or where such JIS component standard is not available, a component that has been demonstrated to comply with the relevant IEC component standard shall be checked for correct application and use in accordance with its rating.</li> </ul> <p>Add a NOTE after the first dashed paragraph as follows:</p> <p>NOTE 1 See 1.7.5A when Type C.14 appliance coupler rated 10 A per IEC 60320-1 is used with an equipment rated not more than 125 V and rated more than 10 A.</p> <p>Replace the first sentence in the third dashed paragraph as follows:</p> <ul style="list-style-type: none"> <li>- where no relevant IEC component standard or JIS component standard harmonized with the relevant IEC component standard exists, or where components are used in circuits not in accordance with their specified rating, the components shall be tested under the conditions occurring in the equipment.</li> </ul> |                 | P       |
| 1.5.6   | In this sub-clause, add "JIS C 5101-14:1998 or" before the reference number, IEC 60384-14:1993.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Add.            | P       |
| 1.5.7.2 | In this sub-clause, add "JIS C 5101-14:1998 or" before the reference number, IEC 60384-14:1993.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Add.            | P       |
| 1.5.8   | In the first paragraph, add "JIS C 5101-14:1998 or" before the reference number, IEC 60384-14:1993.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Add.            | P       |
| 1.7.1   | <p>Replace the fifth dashed paragraph with the following:</p> <ul style="list-style-type: none"> <li>- manufacturer's or responsible company's name or trade-mark or identification mark;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | N/A     |
| 1.7.5   | In the second paragraph, add "or JIS C 8303:2007" after the reference number, IEC/TR 60083:1997".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | N/A     |

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Result - Remark | Verdict |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| 1.7.5A  | <p>Add the following new clause after 1.7.5</p> <p>1.7.5A Appliance Couplers</p> <p>If an appliance coupler according to IEC 60320-1, C.14(rated current: 10 A) is used in equipment whose rated voltage is less than 125 V and the rated current is over 10 A, the following instruction or equivalent shall be described in the user instruction.</p> <p>“ Use only designated cord set attached in this equipment”</p>                                                                                                                                                                                                                                                                                                                                                 | Added.          | N/A     |
| 1.7.12  | <p>Replace first sentence with the following:</p> <p>Instructions and equipment marking related to safety shall be in Japanese.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | N/A     |
| 1.7.17A | <p>Add the following new clause after 1.7.17</p> <p>1.7.17A Marking for CLASS 0I EQUIPMENT</p> <p>For CLASS 0I EQUIPMENT, the following instruction shall be marked on the visible place of the mains plug or the main body:</p> <p>必ず接地接続を行って下さい<br/>“Provide an earthing connection”</p> <p>Moreover, for CLASS 0I EQUIPMENT, the following or equivalent instruction shall be indicated on the visible place of the main body or written in the operating instructions:</p> <p>接地接続は必ず、電源プラグを電源につなぐ前に行ってください。又、接地接続を外す場合は、必ず電源プラグを電源から切り離してから行って下さい。<br/>“Provide an earthing connection before the mains plug is connected to the mains. And, when disconnecting the earthing connection, be sure to disconnect after pulling out the mains plug from the mains.”</p> | Added.          | N/A     |
| 2.1.1.1 | <p>In item b) of this sub-clause, replace “IEC 60083” with “JIS C 8303:2007 or Article 1 of the Ministerial Ordinance (No. 85:1962)”</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | N/A     |
| 2.6.3.2 | <p>Add the following after the first paragraph.</p> <p>This also applies to the conductor of lead wire for protective earthing of CLASS 0I EQUIPMENT.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Added.          | N/A     |

| Clause   | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                        | Result - Remark | Verdict |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| 2.6.4.2  | <p>Replace the first paragraph with the following.</p> <p>Equipment required to have protective earthing shall have a main protective earthing terminal. For equipment with a DETACHABLE POWER SUPPLY CORD, the earthing terminal in the appliance inlet is regarded as the main protective earthing terminal except for CLASS 0I EQUIPMENT providing separate main protective earthing terminal other than appliance inlet.</p>                          | Replaced.       | P       |
| 2.6.5.4  | <p>Replace the first sentence with the following.</p> <p>Protective earthing connections of CLASS I EQUIPMENT shall make earlier and break later than the supply connections in each of the following:</p>                                                                                                                                                                                                                                                | Ditto.          | P       |
| 2.6.5.8A | <p>Add the following new clause after 2.6.5.8</p> <p>2.6.5.8A Earthing of CLASS 0I EQUIPMENT<br/>Plugs with a lead wire for earthing shall not be used for equipment having a rated voltage exceeding 150 V.<br/>For plugs with a lead wire for earthing, the lead wire shall not be earthed by a clip.<br/>CLASS 0I EQUIPMENT shall be provided with an earthing terminal or a lead wire for earthing in the external location where easily visible.</p> |                 | N/A     |
| 2.10.3.1 | In this sub-clause, replace IEC 60664-1 with JIS C 0664:2003.                                                                                                                                                                                                                                                                                                                                                                                             |                 | N/A     |
| 2.10.3.2 | In the second paragraph, replace IEC 60664-1 with JIS C 0664:2003.                                                                                                                                                                                                                                                                                                                                                                                        |                 | N/A     |
| 3.2.3    | <p>Add the following after Table 3A:</p> <p>Table 3A applies when cables complying with JIS C 3662 or JIS C 3663 are used. In case of other cables, the cable entries shall be so designed that a conduit suitable for the cable used can be fitted.</p>                                                                                                                                                                                                  |                 | N/A     |

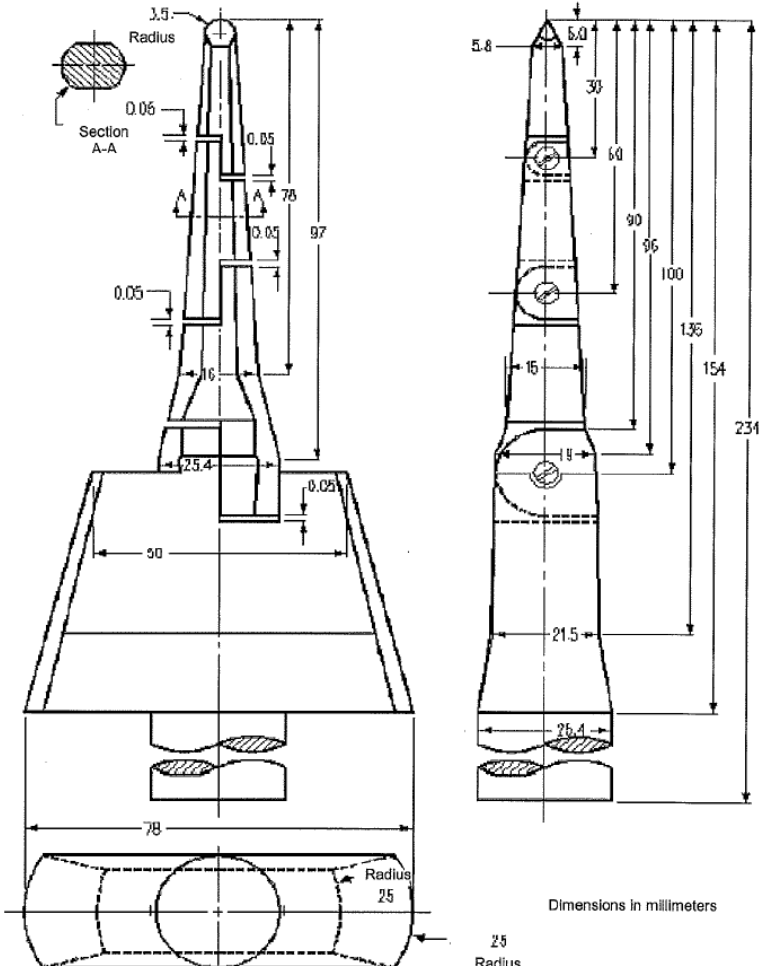
| Clause   | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Result - Remark                             | Verdict |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
| 3.2.5.1  | <p>Add the following to the last of first dashed paragraph.</p> <p>Or mains cords shall be of the sheathed type complying with Appendix 1 of Article 1 of the Ministerial Ordinance (No. 85:1962) on stipulating technical requirements for the Electrical Appliance.</p> <p>Add the following to the last of second dashed paragraph.</p> <p>Or mains cords shall be of the sheathed type complying with Appendix 1 of Article 1 of the Ministerial Ordinance (No. 85:1962) on stipulating technical requirements for the Electrical Appliance.</p> <p>Delete 1) in Table 3B.</p> | <p>Added.</p> <p>Added.</p> <p>Deleted.</p> | P       |
| 3.3.4    | <p>Add the following note to Table 3D:</p> <p>NOTE For cables other than those complying with JIS C 3662 or JIS C 3663, terminals shall be suitable for the size of the intended cables.</p>                                                                                                                                                                                                                                                                                                                                                                                       | Added.                                      | P       |
| 3.3.7    | <p>Add the following after the first sentence:</p> <p>This requirement is not applicable to the external earthing terminal of Class 0I equipment.</p>                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             | N/A     |
| 4.3.4    | <p>Add the following after the first sentence:</p> <p>This requirement also applies to those connections in Class 0I equipment, where CLEARANCE or CREEPAGE DISTANCES over BASIC INSULATION would be reduced to less than the values specified in 2.10.</p>                                                                                                                                                                                                                                                                                                                        |                                             | N/A     |
| 4.3.13.5 | <p>Replace the first paragraph with the following:</p> <p>Except as permitted below, equipment shall be classified and labelled according to JIS C 6802:2005, and JIS C 6803:2006 or IEC 60825-2:2000, as applicable.</p> <p>Replace IEC 60825-1 in the second and the last paragraph with JIS C 6802:2005.</p>                                                                                                                                                                                                                                                                    |                                             | N/A     |
| 4.5      | <p>Add the following NOTE to Table 4B, 3):</p> <p>NOTE: In case no data for the material is available, Appendix 4, 4. (1). b. 3 of the Interpretation on the Ministerial Ordinance stipulating Technical Specifications for Electrical Appliances (Commerce and Distribution Policy Group No. 3:2008/06/19) may apply.</p>                                                                                                                                                                                                                                                         | Added.                                      | N/A     |

| Clause                                                                                                             | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Result - Remark                               | Verdict                                          |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------|---------------|-----------------------------------------------------------------|------|---|-----------|---------------------------------------------------------------------------|------|---|----------------------------------------------------------------------|-----|---|------------------------------|-----|---|--------------------------------------------------------------------------------------------------------------------|----------|---------------------------|-----------|----------------------------------------------------------------------------|-----|---|--------|-----|---|--|---|
| 5.1.3                                                                                                              | <p>Add a note after the first paragraph as follows:</p> <p>NOTE Attention should be drawn to that majority of three-phase power system in Japan is of delta connection, and therefore, in that case, the test is conducted using the test circuit from IEC 60990, figure 13.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               | N/A                                              |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| 5.1.6                                                                                                              | <p>Replace Table 5A as follows:</p> <table border="1"> <thead> <tr> <th>Type of equipment</th><th>Terminal A of measuring instrument connected to:</th><th>Maximum TOUCH CURRENT mA r.m.s. <sup>1)</sup></th><th>Maximum PROTECTIVE CONDUCTOR CURRENT</th></tr> </thead> <tbody> <tr> <td>All equipment</td><td>Accessible parts and circuits not connected to protective earth</td><td>0,25</td><td>-</td></tr> <tr> <td>HAND-HELD</td><td rowspan="4">Equipment main protective earthing terminal (if any)<br/>CLASS I EQUIPMENT</td><td>0,75</td><td>-</td></tr> <tr> <td>MOVABLE (other than HAND-HELD, but including TRANSPORTABLE EQUIPMENT</td><td>3,5</td><td>-</td></tr> <tr> <td>STATIONARY, PLUGGABLE TYPE A</td><td>3,5</td><td>-</td></tr> <tr> <td>All other STATIONARY EQUIPMENT<br/>- not subject to the conditions of 5.1.7<br/>- subject to the conditions of 5.1.7</td><td>3,5<br/>-</td><td>-<br/>5 % of input current</td></tr> <tr> <td>HAND-HELD</td><td rowspan="2">Equipment main protective earthing terminal (if any)<br/>CLASS 0I EQUIPMENT</td><td>0,5</td><td>-</td></tr> <tr> <td>Others</td><td>1,0</td><td>-</td></tr> </tbody> </table> <p><sup>1)</sup> If peak values of TOUCH-CURRENT are measured, the maximum values obtained by multiplying the r.m.s. values by 1,414.</p> | Type of equipment                             | Terminal A of measuring instrument connected to: | Maximum TOUCH CURRENT mA r.m.s. <sup>1)</sup> | Maximum PROTECTIVE CONDUCTOR CURRENT | All equipment | Accessible parts and circuits not connected to protective earth | 0,25 | - | HAND-HELD | Equipment main protective earthing terminal (if any)<br>CLASS I EQUIPMENT | 0,75 | - | MOVABLE (other than HAND-HELD, but including TRANSPORTABLE EQUIPMENT | 3,5 | - | STATIONARY, PLUGGABLE TYPE A | 3,5 | - | All other STATIONARY EQUIPMENT<br>- not subject to the conditions of 5.1.7<br>- subject to the conditions of 5.1.7 | 3,5<br>- | -<br>5 % of input current | HAND-HELD | Equipment main protective earthing terminal (if any)<br>CLASS 0I EQUIPMENT | 0,5 | - | Others | 1,0 | - |  | P |
| Type of equipment                                                                                                  | Terminal A of measuring instrument connected to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Maximum TOUCH CURRENT mA r.m.s. <sup>1)</sup> | Maximum PROTECTIVE CONDUCTOR CURRENT             |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| All equipment                                                                                                      | Accessible parts and circuits not connected to protective earth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0,25                                          | -                                                |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| HAND-HELD                                                                                                          | Equipment main protective earthing terminal (if any)<br>CLASS I EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0,75                                          | -                                                |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| MOVABLE (other than HAND-HELD, but including TRANSPORTABLE EQUIPMENT                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3,5                                           | -                                                |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| STATIONARY, PLUGGABLE TYPE A                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3,5                                           | -                                                |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| All other STATIONARY EQUIPMENT<br>- not subject to the conditions of 5.1.7<br>- subject to the conditions of 5.1.7 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3,5<br>-                                      | -<br>5 % of input current                        |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| HAND-HELD                                                                                                          | Equipment main protective earthing terminal (if any)<br>CLASS 0I EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0,5                                           | -                                                |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| Others                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,0                                           | -                                                |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| 6                                                                                                                  | Replace IEC 60664-1 in NOTE 4 with JIS C 0664.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                               | N/A                                              |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| 7                                                                                                                  | Replace IEC 60664-1 in NOTE 3 with JIS C 0664:2003.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               | N/A                                              |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |
| 7.2                                                                                                                | <p>Add the following after the paragraph:</p> <p>However, the separation requirements and tests of 6.2.1 a), b) and c) do not apply to a CABLE DISTRIBUTION SYSTEM if all of the following apply:</p> <ul style="list-style-type: none"> <li>- the circuit under consideration is a TNV-1 CIRCUIT; and</li> <li>- the common or earthed side of the circuit is connected to the screen of the coaxial cable and to all accessible parts and circuits (SELV, accessible metal parts and LIMITED CURRENT CIRCUITS, if any); and</li> <li>- the screen of the coaxial cable is intended to be connected to earth in the building installation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               | N/A                                              |                                               |                                      |               |                                                                 |      |   |           |                                                                           |      |   |                                                                      |     |   |                              |     |   |                                                                                                                    |          |                           |           |                                                                            |     |   |        |     |   |  |   |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                               | Result - Remark | Verdict |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| W.1    | <p>Replace the second and the third sentence in the first paragraph with the following:</p> <p>This distinction between earthed and unearthed (floating) circuit is not the same as between CLASS I EQUIPMENT, CLASS 0I EQUIPMENT and CLASS II EQUIPMENT. Floating circuits can exist in CLASS I EQUIPMENT or CLASS 0I EQUIPMENT and earthed circuits in CLASS II EQUIPMENT.</p> |                 | N/A     |

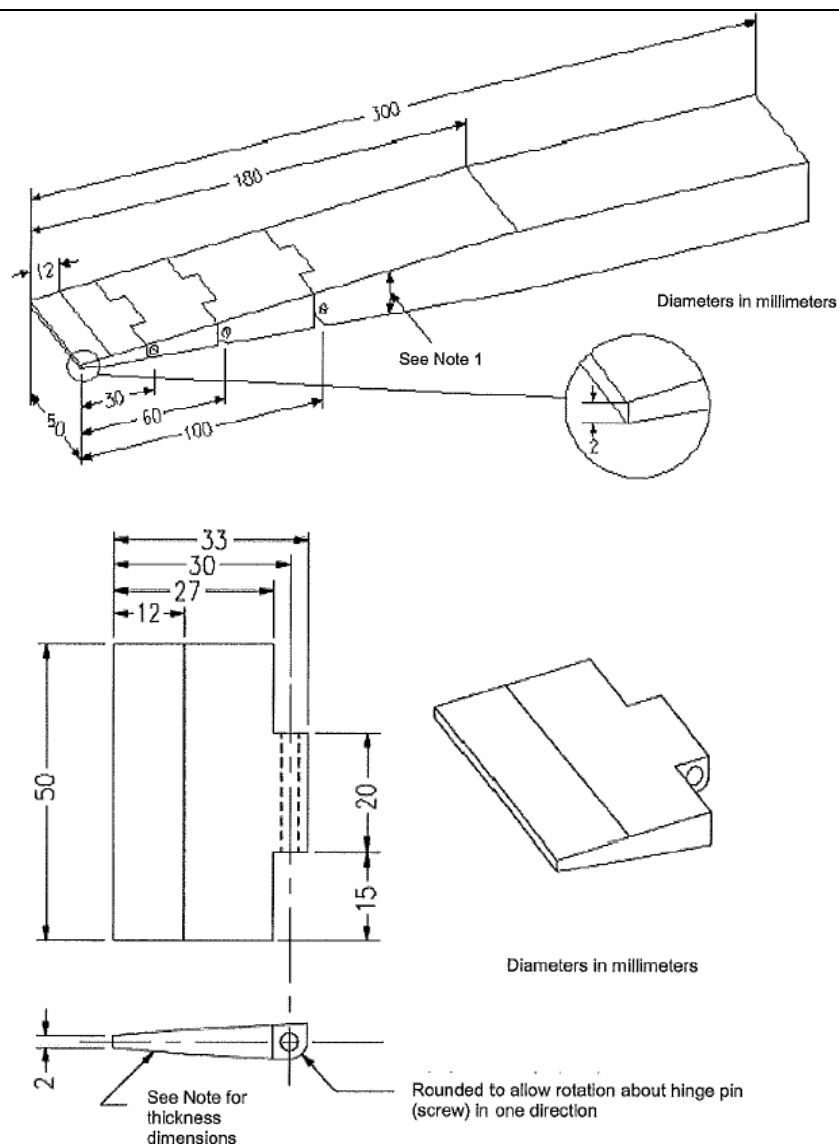
| Clause   | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Result - Remark | Verdict |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Annex JA | <p>Add a new annex JA with the following contents.</p> <p style="text-align: center;">Annex JA<br/>(normative)<br/>Document shredding machines</p> <p>Document shredding machines shall also comply with the requirements of this annex except those of STATIONARY EQUIPMENT used by connecting directly to an AC MAINS SUPPLY of three-phase 200V or more.</p> <p><b>JA.1 Markings and instructions</b><br/>The symbol<br/>  (JIS S 0101:2000, 6.2.4) and the following precautions for use shall be marked on readily visible part adjacent to document feed opening. The marking shall be clearly legible, permanent, and easily discernible;</p> <ul style="list-style-type: none"> <li>- that use by an infants/children may cause a hazard of injury etc.;</li> <li>- that a hand can be drawn into the mechanical section for shredding when touching the document-slot;</li> <li>- that clothing can be drawn into the mechanical section for shredding when touching the document-slot;</li> <li>- that hairs can be drawn into the mechanical section for shredding when touching the document-slot;</li> <li>- in case of equipment incorporating a commutator motor, that equipment may catch fire or explode by spraying of flammable gas.</li> </ul> <p><b>JA.2 Inadvertent reactivation</b><br/>Any safety interlock that can be operated by means of the test finger, Figure JA.1, is considered to be likely to cause inadvertent reactivation of the hazard.</p> <p>Compliance is checked by inspection and, where necessary, by a test with the test finger, Figure JA.1</p> <p><b>JA.3 Disconnection from the mains supply</b><br/>Document shredding machines shall incorporate an isolating switch complying with sub-clause 3.4.2 as the device disconnecting the power of hazardous moving parts. For this switch, two-position (single-use) switch or multi-position (multifunction) switch (e.g., slide switch) may be used.</p> | Not apply for.  | N/A     |

| Clause   | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Result - Remark | Verdict |
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| Annex JA | <p>If two-position switch, the positions for "ON" and "OFF" shall be indicated in accordance with sub-clause 1.7.8. If multi-position switch, the position for "OFF" shall be indicated in accordance with sub-clause 1.7.8 and other positions shall be indicated with proper terms or symbols.</p> <p>Compliance is checked by inspection</p> <p><b>JA.4 Protection against hazardous moving parts</b><br/>Any warning shall not be used instead of the structure for preventing access to hazardous moving parts.</p> <p>Document shredding machines shall comply with the following requirements.</p> <p>Insert the test finger, Figure JA.1, into all openings in MECHANICAL ENCLOSURES without applying appreciable force. It shall not be possible to touch hazardous moving parts with the test finger. This consideration applies to all sides of MECHANICAL ENCLOSURES when the equipment is mounted as intended. Before testing with the test finger, remove the parts detachable without a tool.</p> <p>Insert the wedge-probe, Figure JA.2, into the document-slot. And, against all directions of openings, if straight-cutting type, a force of 45 N shall apply to the probe, and 90 N if cross-cutting type. In this case, the weight of the probe is to be factored into the overall applied force. Before testing with the wedge-probe, remove the parts detachable without a tool. It shall not be possible to touch any hazardous moving parts, including the shredding roller or the mechanical section for shedding, with the probe.</p> |                 |         |

| Clause   | Requirement - Test                                                                                                 | Result - Remark | Verdict |
|----------|--------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Annex JA |  <p>Figure JA.1 Test finger</p> |                 |         |

| Clause | Requirement - Test | Result - Remark | Verdict |
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Annex JA



Details of the tip of wedge

| Distance from the tip (mm) | Thickness of probe (mm) |
|----------------------------|-------------------------|
| 0                          | 2                       |
| 12                         | 4                       |
| 180                        | 24                      |

NOTE 1 The thickness of the probe varies linearly, with slope changes at the respective points shown in the table.

NOTE2 The allowable dimensional tolerance of the probe is +/- 0.127 mm.

**Figure JA.2 Wedge-probe**



PSB Singapore

| Clause | Requirement - Test | Result - Remark | Verdict |
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|                                                |                                                                                                                                         |               |     |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|
| <b>Korea (KR)</b>                              |                                                                                                                                         |               |     |
| <b>National standard reference....: K60950</b> |                                                                                                                                         |               |     |
| 1.5.101                                        | Addition<br>Plugs for the connection of the apparatus to the supply mains shall comply with the Korean requirement (KSC 8305 and 8305). | Not estimate. | N/A |
| 7<br>EMC                                       | Addition<br>The apparatus shall comply with the relevant CISPR standards                                                                | Ditto.        | N/A |

| Clause | Requirement - Test | Result - Remark | Verdict |
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|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |     |
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| <b>Sweden (SE)</b>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |     |
| <b>National standard reference.....: SS-EN 60950-1</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |     |
| 6.1.2.1                                                | <p><b>The following text is added:</b></p> <p>NOTE - In <b>Sweden</b> the following text is added between the first and second paragraph:<br/>In <b>Sweden</b>, if this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none"> <li>- two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> <li>- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul> <p>If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in the accordance with the compliance clause below and in addition:</p> <ul style="list-style-type: none"> <li>- passes the test and inspection criteria of IEC 60950-1, 2.10.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of IEC 60950-1, 2.10.7 shall be performed using 1,5 kV); and</li> <li>- is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul> <p>It is permitted to bridge this insulation with a capacitor complying with IEC 60384-14:1993, subclass Y2.<br/>A capacitor classified Y3 according to IEC 60384-14:1993, may bridge this insulation under the following conditions:<br/>The insulation requirements are satisfied by having a capacitor classified Y3 as defined by IEC 60384-14, which in addition to the Y3 testing, is tested with an Impulse test of 2.5kV defined in IEC 60950-1, subclause 6.2.2.1.<br/>The additional testing shall be performed on all the test specimens as described in IEC 60384 - 14.</p> <ul style="list-style-type: none"> <li>- The Impulse test of 2.5kV is to be performed before the Endurance Test in IEC 60384 -14 in the sequence of tests as described in IEC 60384-14.</li> </ul> | Not considered, no TNV circuit. | N/A |

| Clause                                                      | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Result - Remark                | Verdict |
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| <b>Switzerland (CH)</b>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |         |
| <b>National standard reference.....: SN EN 60950-1:2001</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |         |
| 1.5.1                                                       | Ordinance on environmentally hazardous substances SR 814.081, Annex 1.7,<br><br>Mercury - Annex 1.7 of SR 814.81 applies for mercury.<br><br>Switches containing mercury such as thermostats, relays and level controllers are not allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No switch.                     | N/A     |
| 1.7.13                                                      | Ordinance on chemical hazardous risk reduction SR 814.81, Annex 2.15 Batteries<br><br>Annex 2.15 of SR 814.81 applies for batteries containing cadmium and mercury.<br><br>Note: Ordinance relating to environmentally hazardous substances, SR 814.013 of 1986-06-09 is not longer in force and superseded by SR 814.81 of 2009-02-01 (ChemRRV).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No battery.                    | N/A     |
| 3.2                                                         | Supply cords of portable electrical appliances having a rated current not exceeding 10 A shall be provided with a plug complying with IEC 60884-1(3.ed.) + am1, SEV 1011 and one of the following dimension sheets:<br><br>- SEV 6533-2:2009 Plug type 11, L + N, 250V 10A<br><br>- SEV 6534-2:2009 Plug type 12, L + N + PE, 250V 10A<br><br>- SEV 6532-2:2009 Plug type 15, 3L + N + PE, 250/400V 10A<br><br>Supply cords of portable electrical appliances having a rated current not exceeding 16 A shall be provided with a plug complying with IEC 60884-1(3.ed.) + am1, SEV 1011 and one of the following dimension sheets:<br><br>- SEV 5933-2:2009 Plug type 21 L + N, 250 V, 16A<br><br>- SEV 5934-2:2009 Plug type 23 L + N + PE, 250 V, 16A<br><br>- SEV 5932-2:2009 Plug type 25 3L + N + PE, 250/400V 16A<br><br>NOTE 16 A plugs are not often used in Swiss domestic installation system.<br><br>See TRF template regulatory requirements Switzerland on IECEE Website R.R. TRF templates. | No power supply cord provided. | N/A     |

| Clause | Requirement - Test | Result - Remark | Verdict |
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|                                                             |                                                                                                                                                                                    |                                                                                                                        |     |
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| <b>USA (US)</b>                                             |                                                                                                                                                                                    |                                                                                                                        |     |
| <b>National standard reference.....: SN EN 60950-1:2001</b> |                                                                                                                                                                                    |                                                                                                                        |     |
| 1.1                                                         | Equipment able to be installed in accordance with the National Electrical Code ANSI/NFPA 70                                                                                        | Equipment in compliance with IEC 60950-1. Overall acceptance has to be evaluated during the national approval process. | N/A |
| 1.1.1                                                       | Equipment able to be installed in accordance with ANSI/NFPA 75 and NEC Art. 645 unless intended for use outside of computer room and provided with such instructions               | Considered.                                                                                                            | P   |
| 1.1.2                                                       | Equipment in wire-line communication facilities serving high-voltage electric power stations operating at greater than 1kV are excluded.                                           |                                                                                                                        | N/A |
| 1.1.2                                                       | Special requirements apply to equipment intended for use outdoors                                                                                                                  |                                                                                                                        | N/A |
| 1.4.14                                                      | For Pluggable Equipment Type A, the protection in the installation is assumed to be 20 A                                                                                           | Considered, see test table 2.6.3.4 of report for details.                                                              | P   |
| 1.5.1                                                       | All IEC standards for components identified in Annex P.1 replaced by the relevant requirements of UL component standards in Annex P.1                                              | EUT in compliance with requirements of IEC 60950-1. Overall acceptance shall be evaluated during national approval.    | N/A |
| 1.5.1                                                       | All IEC standards for components identified in Annex P.2 alternatively satisfied by the relevant requirements of UL component standards (A. P.2.)                                  |                                                                                                                        | N/A |
| 1.5.5                                                       | Interconnecting cables acceptable for the application regarding voltage, current, temperature, flammability, mechanical serviceability and the like.                               | No such cord provided.                                                                                                 | N/A |
| 1.5.5                                                       | For other than limited power and TNV circuits, the type of output circuit identified for output connector.                                                                         |                                                                                                                        | N/A |
| 1.5.5                                                       | External cable assemblies that exceed 3.05 m in length to be types specified in the National Electrical Code                                                                       |                                                                                                                        | N/A |
| 1.5.5                                                       | Detachable external interconnecting cables 3.05 m or less in length and provided with equipment marked to identify the responsible organization and the designation for the cable. |                                                                                                                        | N/A |
| 1.5.5                                                       | Building wiring and cable for use in ducts, plenums and other air handling space subject to special requirements and excluded from scope.                                          |                                                                                                                        | N/A |
| 1.5.5                                                       | Telephone line and extension cords and the like comply with UL 1863                                                                                                                |                                                                                                                        | N/A |

| Clause  | Requirement - Test                                                                                                                                                                                                                                           | Result - Remark  | Verdict |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|
| 1.6.1.2 | Equipment intended for connection to a d.c. power (mains) distribution system is subject to special circuit classification requirements (e.g., TNV-2)                                                                                                        |                  | N/A     |
| 1.6.1.2 | Earthing of d.c. powered equipment provided                                                                                                                                                                                                                  |                  | N/A     |
| 1.7     | Lamp replacement information indicated on lampholder in operator access area                                                                                                                                                                                 |                  | N/A     |
| 1.7.1   | Special marking format for equipment intended for use on a supply system with an earthed neutral and more than one phase conductor                                                                                                                           |                  | N/A     |
| 1.7.1   | Equipment voltage rating not higher than rating of the plug except under special conditions                                                                                                                                                                  |                  | N/A     |
| 1.7.6   | Special fuse replacement marking for operator accessible fuses                                                                                                                                                                                               |                  | N/A     |
| 1.7.7   | Identification of terminal connection of the equipment earthing conductor                                                                                                                                                                                    |                  | N/A     |
| 1.7.7   | Connectors and field wiring terminals for external Class 2 or Class 3 circuits provided with marking indicating minimum Class of wiring to be used                                                                                                           |                  | N/A     |
| 1.7.7   | Marking located adjacent to terminals and visible during wiring                                                                                                                                                                                              |                  | N/A     |
| 2.1.1   | Screw shell of Edison-base lampholder tied to the neutral conductor                                                                                                                                                                                          |                  | N/A     |
| 2.1.1.1 | Bare TNV conductive parts in the interior of equipment normally protected against contact by a cover intended for occasional removal are exempt provided instructions include directions for disconnection of TNV prior to removal of the cover              |                  | N/A     |
| 2.3.1.b | Other telecommunication signaling systems (e.g., message waiting) than described in 2.3.1(b) are subject to M.4                                                                                                                                              |                  | N/A     |
| 2.3.1.b | For TNV-2 and TNV-3 circuits with other than ringing signals and with voltages exceeding 42.4 Vp or 60 V d.c., the maximum current limit through a 2000 Ohm or greater resistor with loads disconnected is 7.1 mA peak or 30 mA d.c. under normal conditions | No TNV circuits. | N/A     |
| 2.3.1.b | Limits for measurements across 5000 ohm resistor in the event of a single fault are replaced after 200 ms with the limits of M.3.1.4                                                                                                                         |                  | N/A     |
| 2.3.2   | Enamel coating on signal transformer winding wire allowed as an alternative to Basic insulation in specific telecommunication applications when subjected to special construction requirements and routine testing                                           |                  | N/A     |
| 2.3.2   | In the event of a single fault, the limits of 2.2.3 apply to SELV circuits and accessible conductive parts                                                                                                                                                   |                  | N/A     |

| Clause   | Requirement - Test                                                                                                                                                                                        | Result - Remark                                                          | Verdict |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------|
| 2.5      | Overcurrent protection device required for Class 2 and Class 3 limiting in accordance with the NEC, or for a Limited Power Source, not interchangeable with higher rated devices, if operator replaceable |                                                                          | N/A     |
| 2.6      | Equipment having receptacles for output a.c. power connectors generated from an internal separately derived source have the earthed (grounded) circuit conductor suitably bonded to earth.                |                                                                          | N/A     |
| 2.6.3.3  | For Pluggable Equipment Type A, if neither a) or b) are applicable, the current rating of the circuit is taken as 20 A.                                                                                   |                                                                          | N/A     |
| 2.6.3.4  | Capacity of connection between earthing terminal and parts required to be earthed subject to special conditions based on the current rating of the circuit.                                               |                                                                          | N/A     |
| 2.6.4.1  | Field wiring terminals for earthing conductors suitable for wire sizes (gauge) used in US                                                                                                                 |                                                                          | N/A     |
| 2.7.1    | Data for selection of special external branch circuit overcurrent devices marked on the equipment.                                                                                                        |                                                                          | N/A     |
| 2.7.1    | Standard supply outlets protected by overcurrent device in accordance with the National Electrical Code                                                                                                   | Not apply for.                                                           | N/A     |
| 2.7.1    | Overcurrent protection for individual transformers that distribute power to other units over branch circuit wiring.                                                                                       |                                                                          | N/A     |
| 2.7.1    | Additional requirements for overcurrent protection apply to equipment provided with panelboards.                                                                                                          |                                                                          | N/A     |
| 2.7.1    | Non-motor-operated equipment requiring special overcurrent protective device marked with device rating.                                                                                                   |                                                                          | N/A     |
| 2.10.5.4 | Multi-layer winding wire subject to UL component wire requirements in addition to 2.10.5.4 and Annex U.                                                                                                   |                                                                          | N/A     |
| 3.1.1    | Permissible combinations of internal wiring/external cable sizes for overcurrent and short circuit protection.                                                                                            |                                                                          | N/A     |
| 3.1.1    | All interconnecting cables protected against overcurrent and short circuit.                                                                                                                               |                                                                          | N/A     |
| 3.2      | Wiring methods permit connection of equipment to primary power supply in accordance with the National Electrical Code                                                                                     | The connection with mains by using appliance inlet or primary connector. | N/A     |
| 3.2.1    | Permitted use for flexible cords and plugs.                                                                                                                                                               |                                                                          | N/A     |
| 3.2.1    | Flexible cords provided with attachment plug rated 125% of equipment current rating.                                                                                                                      | Not considered.                                                          | N/A     |

| Clause  | Requirement - Test                                                                                                                                                                                                        | Result - Remark           | Verdict |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------|
| 3.2.1   | Any Class II equipment provided with 15 or 20 A standard supply outlets, Edison-base lampholders or single pole disconnect device provided with a polarized type attachment plug.                                         |                           | N/A     |
| 3.2.1.2 | Equipment intended for connection to DC mains supply power systems complies with special wiring requirements (e.g., no permanent connection to supply by flexible cord).                                                  |                           | N/A     |
| 3.2.1.2 | Equipment with one pole of the DC mains supply connected to both the equipment mains input terminal and the main protective earthing terminal provided with special instructions and construction provisions for earthing |                           | N/A     |
| 3.2.1.2 | Equipment with means for connecting supply to earthing electrode conductor has no switches or protective devices between supply connection and earthing electrode connection.                                             |                           | N/A     |
| 3.2.1.2 | Special markings and instructions for equipment with provisions to connect earthed conductor of a DC supply circuit to earthing conductor at the equipment.                                                               |                           | N/A     |
| 3.2.1.2 | Special markings and instructions for equipment with earthed conductor of a DC supply circuit connected to the earthing conductor at the equipment.                                                                       |                           | N/A     |
| 3.2.1.2 | Terminals and leads provided for permanent connection of DC powered equipment to supply marked to indicate polarity if reverse polarity may result in a hazard.                                                           |                           | N/A     |
| 3.2.3   | Permanently connected equipment has provision for connecting and securing a field wiring system (i.e. conduit, or leads etc.) per the National Electrical Code                                                            |                           | N/A     |
| 3.2.3   | Permanently connected equipment may have terminals or leads not smaller than No. 18 AWG (0.82 mm <sup>2</sup> ) and not less than 152 mm in length for connection of field installed wiring.                              |                           | N/A     |
| 3.2.3   | If supply wires exceed 60 °C, marking indicates use of 75 °C or 90 °C wiring for supply connection as appropriate.                                                                                                        |                           | N/A     |
| 3.2.3   | Equipment compatible with suitable trade sizes of conduits and cables.                                                                                                                                                    |                           | N/A     |
| 3.2.5   | Length of power supply cord limited to between 1.5 and 4.5 m unless shorter length used when intended for a special installation.                                                                                         | See appended table 1.5.1. | P       |
| 3.2.5   | Conductors in power supply cords sized according to National Electrical Code                                                                                                                                              |                           | N/A     |
| 3.2.5   | Power supply cords and cord sets incorporate flexible cords suitable for the particular application.                                                                                                                      |                           | N/A     |

| Clause | Requirement - Test                                                                                                                                                                                                                                                                    | Result - Remark                          | Verdict |
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| 3.2.6  | Strain relief provided for non-detachable interconnecting cables not supplied by a limited power source.                                                                                                                                                                              |                                          | N/A     |
| 3.2.9  | Adequate wire bending space and volume of field wiring compartment required to properly make the field connections.                                                                                                                                                                   |                                          | N/A     |
| 3.2.9  | Equipment intended solely for installation in Restricted Access Locations using low voltage d.c. systems may not need provision for connecting and securing a field wiring system. A method of securing wiring or instructions provided to ensure the wiring is protected from abuse. |                                          | N/A     |
| 3.3    | Field wiring terminals provided for interconnection of units for other than LPS or Class 2 circuits also comply with 3.3.                                                                                                                                                             |                                          | N/A     |
| 3.3    | Interconnection of units by LPS or Class 2 conductors may have field wiring connectors other than those specified in 3.3 if wiring is reliably separated.                                                                                                                             |                                          | N/A     |
| 3.3.1  | Terminals for the connection of neutral conductor identified by a distinctive white marking or other equally effective means.                                                                                                                                                         | Such terminals are not used.             | N/A     |
| 3.3.3  | Wire binding screw terminal permitted for connection of No. 10 AWG (5.3 mm <sup>2</sup> ) or smaller conductor if provided with upturned lugs, cupped washer or equivalent retention.                                                                                                 | Ditto.                                   | N/A     |
| 3.3.4  | Terminals accept wire sizes (gauge) used in the United States                                                                                                                                                                                                                         | Ditto.                                   | N/A     |
| 3.3.4  | Terminals accept current-carrying conductors rated 125% of the equipment current rating.                                                                                                                                                                                              | Ditto.                                   | N/A     |
| 3.3.6  | Field wiring terminals marked to indicate the material(s) of the conductor appropriate for the terminals used.                                                                                                                                                                        |                                          | N/A     |
| 3.3.6  | Connection of an aluminum conductor not permitted to terminal for equipment earthing conductor.                                                                                                                                                                                       | Not used.                                | N/A     |
| 3.3.6  | Field wiring connections made through the use of suitable pressure connectors (including set screw type), solder lugs or splices to flexible leads.                                                                                                                                   |                                          | N/A     |
| 3.4.2  | Separate motor control device(s) required for cord-connected equipment rated more than 12 A, or with motor rated more than 1/3 hp or more than 120 V.                                                                                                                                 | No such device is used for equipment.    | N/A     |
| 3.4.8  | Vertically mounted disconnect devices oriented so up position of handle is "on".                                                                                                                                                                                                      | No such appliance for disconnect device. | N/A     |
| 3.4.11 | For computer-room applications, equipment with battery systems capable of supplying 750 VA for 5 min require battery disconnect means.                                                                                                                                                |                                          | N/A     |

| Clause   | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Result - Remark                          | Verdict |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|
| 4.2.8.1  | Special opening restrictions for enclosures around CRTs with face dimension of 160 mm or more.                                                                                                                                                                                                                                                                                                                                                                                    |                                          | N/A     |
| 4.2.9    | Compartment housing high-pressure lamp marked to indicate risk of explosion.                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | N/A     |
| 4.3.2    | Loading test for equipment with handle(s) used to support more than 9 kg tested at four times the weight of the unit.                                                                                                                                                                                                                                                                                                                                                             | Considered, see test report IEC 60950-1. | P       |
| 4.3.6    | In addition to the IEC requirements, Direct Plug-in Equipment complies with UL 1310 mechanical assembly requirements.                                                                                                                                                                                                                                                                                                                                                             | Unit is not DIRECT PLUG-IN EQUIPMENT.    | N/A     |
| 4.3.12   | The maximum quantity of flammable liquid stored in equipment complies with ANSI/NFPA 30 (Table NAE.6).                                                                                                                                                                                                                                                                                                                                                                            | No store device for flammable liquid.    | N/A     |
| 4.3.12   | Equipment using replenishable liquids marked to indicate type of liquid to be used                                                                                                                                                                                                                                                                                                                                                                                                |                                          | N/A     |
| 4.3.13.2 | Equipment that produces x-radiation and does not comply with 4.3.12 under all conditions of servicing marked to indicate the presence of radiation where readily visible.                                                                                                                                                                                                                                                                                                         |                                          | N/A     |
| 4.3.13.5 | Requirements contained in the applicable national codes and regulations apply to lasers (21 CFR 1040).                                                                                                                                                                                                                                                                                                                                                                            | No laser.                                | N/A     |
| 4.7      | Automated information storage equipment intended to contain more than 0.76 mm <sup>3</sup> of combustible media requires provision for automatic sprinklers or a gaseous agent extinguishing system.                                                                                                                                                                                                                                                                              |                                          | N/A     |
| 4.7.3.1  | Equipment for use in environmental air space other than ducts or plenums provided with metal enclosure or with non-metallic enclosure having adequate fire-resistance and low smoke producing characteristics. Low smoke-producing characteristics evaluated according to UL 2043. Equipment for installation in space used for environmental air as described in Sec. 300-22(c) of the NEC provided with instructions indicating suitability for installation in such locations. |                                          | N/A     |
| 4.7.3.1  | Flame spread rating for external surface of combustible material with exposed area greater than 0.93 m <sup>2</sup> or a single dimension greater than 1.8 m; 50 or less for computer room applications or 200 or less for other applications.                                                                                                                                                                                                                                    | Such condition is not considered.        | N/A     |
| 4.7.3.4  | Wire marked "VW-1" or "FT-1" considered equivalent.                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | N/A     |
| 5.1.8.2  | Special earthing provisions and instructions for equipment with high touch current due to telecommunication network connections.                                                                                                                                                                                                                                                                                                                                                  |                                          | N/A     |

| Clause  | Requirement - Test                                                                                                                                                                                                 | Result - Remark                   | Verdict |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------|
| 5.1.8.3 | Touch current due to ringing voltage for equipment containing telecommunication network leads.                                                                                                                     |                                   | N/A     |
| 5.3.6   | Overloading of SELV connectors and printed wiring board receptacles accessible to the operator.                                                                                                                    |                                   | N/A     |
| 5.3.6   | Tests interrupted by opening of a component repeated two additional times.                                                                                                                                         |                                   | N/A     |
| 5.3.8.1 | Test interrupted by opening of wire or trace subject to certain conditions.                                                                                                                                        |                                   | N/A     |
| 6       | Specialized instructions provided for telephones that may be connected to a telecommunications network.                                                                                                            | Not intended to connect with TNV. | N/A     |
| 6       | Marking identifying function of telecommunication type connectors not used for connection to a telecommunication network.                                                                                          |                                   | N/A     |
| 6.2.1   | Special requirements for enameled wiring used as electrical separation provided between parts connected to telecommunication network and telecommunication circuitry intentionally isolated from network.          |                                   | N/A     |
| 6.2.1   | Digital line termination equipment (e.g., NCTE) subject to separation requirements.                                                                                                                                |                                   | N/A     |
| 6.3     | Equipment remotely powered over telecommunication wiring systems provided with specialized markings adjacent to the connection.                                                                                    |                                   | N/A     |
| 6.3     | Overcurrent protection incorporated into equipment to provide power over telecommunication wiring system not interchangeable with devices of higher ratings if operator replaceable.                               |                                   | N/A     |
| 6.4     | Additional requirements for equipment intended for connection to a telecommunication network using cable subject to overvoltage from power line failures (Fig. 6C).                                                |                                   | N/A     |
| 6.4     | Where 26 AWG line cord required by Fig. 6C, either the cord is provided with the equipment or described in the safety instructions.                                                                                |                                   | N/A     |
| 6.5     | Acoustic pressure from an ear piece less than 136 dBA for short duration disturbances, and less than 125 dBA for handsets, 118 dBA for headsets, and 121 dBA for insert earphones, for long duration disturbances. |                                   | N/A     |
| 7       | Equipment associated with the cable distribution system may need to be subjected to applicable parts of Chapter 8 of the National Electrical Code                                                                  |                                   | N/A     |
| H       | Ionizing radiation measurements made under single fault conditions in accordance with the requirements of the Code of Federal Regulations 21 CFR 1020                                                              | No ionizing radiation.            | N/A     |

| Clause | Requirement - Test                                                                                           | Result - Remark | Verdict |
|--------|--------------------------------------------------------------------------------------------------------------|-----------------|---------|
| M.2    | Continuous ringing signals evaluated to Method A subjected to special accessibility considerations.          | No TNV.         | N/A     |
| M.4    | Special requirements for message waiting and similar telecommunications signals.                             |                 | N/A     |
| NAC    | Equipment intended for use with a generic secondary protector marked with suitable instructions.             |                 | N/A     |
| NAC    | Equipment intended for use with a specific primary or secondary protector marked with suitable instructions. |                 | N/A     |

**Note: Before placing the products in the different countries, the manufacturer must ensure that:**

1. Operating Instructions, Ratings Labels and Warnings Labels written in an Accepted or Official Language of the country in question.
2. The equipment complies with the National Standards and/or Electrical Codes of the country in question.