

COLLECTION OF CTL DECISIONS

Decision Sheet

Standard(s): IEC 60065, 6 th ed. IEC 60950, 3 rd ed. IEC 60950-1, 1 st ed.	Sub clause(s): 6.2 4.3.13 4.3.13.5	DSH - 564 Page 1 (1)
Subject: LASER COMPONENTS	Key words: LASER	Decision confirmed by CTL at its 42nd meeting 2005 in Cancun
<p>Question:</p> <p>We have noticed that certification bodies are treating products incorporating laser components in different ways. We at SEMKO have always measured the laser emission from the product when the laser component are installed and are in operation as in normal use of the product. The laser emission is also measured when abnormal operation of the product is simulated.</p> <p>We are doing the measurements regardless whether the laser component, for instance a laser reader head, is separately "laser tested" or not.</p>		
<p>Decision:</p> <p>The complete equipment shall comply with the IEC 60825 series of standards referenced as normative references in IEC 60950, 60950-1 or IEC 60065, as applicable.</p> <p><u>If previously CB certified laser component is incorporated into the equipment, compliance is checked by evaluation of the data of the laser component and the complete equipment and, if necessary, by measurement.</u></p>		
<p>Explanatory notes:</p> <p>If the laser module exceeds Class I, in most cases the laser is completely contained inside the final product enclosure, preventing emission of laser radiation from the final product. Here, another measurement is probably not needed. However, addition of another lens to the module (possibly changing the Laser Class) or location of reflective surfaces (possibly re-directing the laser out of the enclosure through a door) should be considered.</p> <p>If the laser is accessible by possible operation on an open tray outside the product (possibly by interlock failure as the single fault <u>and/or under fault in the absence of interlock system</u>), measurement is needed if the laser module exceeds Class I under normal conditions, <u>single fault conditions</u> or <u>in case of products under the scope of IEC 60065</u>, the increased limits of IEC 60065 Cl. 6.2.2 under single fault conditions.</p>		