

**COLLECTION OF THE CTL DECISIONS
DECISION SHEET**

Standard: IEC 60950-1:2000, 1 st ed	Clause: 3.4.6	Sheet No. 447
Subject: Disconnect device	Key words: DC mains supply	Decision taken at the 40 th meeting 2003
<p>Question:</p> <p>Equipment for building-in is supplied by power supply which has an output rating 24 Vdc, 40 A. The power supply is 40 m far from end use equipment which contains above mentioned unit.</p> <p>a) Do other test houses require disconnect device for such DC supplied unit?</p> <p>b) Do other test houses require contact separation of disconnect device 3,0 mm if supply voltage is only 24 Vdc.</p> <p>Decision:</p> <p>a) Per 3.4.1: A disconnect device or devices shall be provided to disconnect the equipment from the mains supply for servicing. (This device can be an easily removable fuse for DC-mains-supply with non hazardous voltages).</p> <p>b) Disconnect devices in DC-Mains Supplies with not hazardous voltages shall have a contact separation equal to the clearance for basic insulation.</p> <p>Explanatory notes:</p> <p>The above decision is based on the answers received during the enquiry and also on the following proposal, which is made to IEC TC108 to amend IEC 60950-1:</p> <p>Disconnect devices shall have a contact separation of at least 3 mm if connected in a HAZARDOUS VOLTAGE circuit and, when incorporated in the equipment, shall be connected as closely as practicable to the incoming supply. Disconnect devices if connected in DC MAINS SUPPLIES that are not HAZARDOUS VOLTAGES shall have a contact separation equal to the CLEARANCE for BASIC INSULATION.</p> <p>For DC MAINS SUPPLIES that are not HAZARDOUS VOLTAGES, easily removable fuses that are accessible to the SERVICE PERSON are permitted as disconnect devices.</p>		