

## DECISION SHEET

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| <b>Standard(s)- (year and edition):</b><br>IEC 60601-1:1988 Ed.2<br>Am1+Am2   | <b>Sub clause(s):</b><br>56.10 b) | <b>Sheet n°:</b><br><b>DSH-406</b>                                 |
| <b>Subject:</b><br>The adequacy of the knob/shaft mechanical link   | <b>Key words:</b><br>Knob, torque | <b>Confirmed by CTL at its 39<sup>th</sup> meeting, in Cologne</b> |
| <b>Question:</b><br><br>a) The criteria is that the knob shall not rotate with respect to the shaft. This does not cover the possibility of internal damage to the controlling device e.g. potentiometer.<br>b) The torque test values are too high. Maximum torque on a 10mm diameter knob was found to be <0.5Nm. |                                   |  |
| <b>Decision:</b><br><br>The torque test values in Table XIII are not excessive. This table could be re-examined in the 3rd edition of IEC 60601-1.  |                                   |  |
| <b>Explanatory notes:</b><br><br>The adequacy of the knob/shaft mechanical link is covered by 56.10b). The adequacy of the mechanical stops, wherever located, is covered by 56.10b) this is intended to minimise the potential for internal damage by excessive torque.  |                                   |  |