

Notes accompanying Form LS04 – Laser Survey form

Where a box is shaded, the listed item is not required for the laser in question. Where a box is empty, it is necessary to check that the precaution specified has been fulfilled. Precautions indicated on the table required for Class 3B** lasers are the same as those for Class 3B lasers.

- a) Remote interlock: interlocked to the door or the enclosure – required for all Class 3B, 3B** and Class 4 lasers.
- b) Key control: all Class 3B, 3B** and Class 4 lasers should be provided with a key control to ensure that only authorised personnel use the laser.
- c) Emission indicator: all Class 3R, 3B, 3B** and Class 4 lasers should have this, it may also be sited outside the lab to give a warning that the laser is in use.
- d) Beam shutter: should be provided for all Class 3B, 3B** and Class 4 lasers.
- e) Beam stop: required for Class 3B, 3B** and Class 4 to ensure that inadvertent exposure of bystanders to laser radiation is avoided. In addition, for all other classes of laser the beam should be terminated at the end of its useful path.
- f) Beam level: avoid eye level for all classes.
- g) Beam enclosure: needed to guard against specular reflection from Class 3B, 3B** and Class 4 lasers. It can mean anything from screening the experimental area or beam up to a total enclosure.
- h) Eye protection: may be required for Class 3B, 3B** and Class 4 lasers, and Class 3R lasers operating outside the visible range.
- i) Protective clothing: mainly required for Class 4 lasers.
- j) Eye examinations: only required after an accident but may be provided for people working with Class 3B, 3B** and Class 4 lasers.
- k) Training: Training should be given to all persons working with Class 1M and 2M lasers under special conditions, and all Class 3R, 3B, 3B** and Class 4 lasers.
- l) Laser labels: all lasers should display the appropriate labels.
- m) Door signs: required for all laser areas where Class 3B, 3B** or Class 4 lasers are used.