

Laser safety at TRIUMF

Matthew Pearson

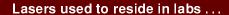
TRIUME

September 22, 2017





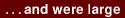














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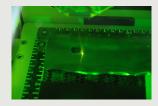




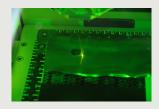








cutting targets



cutting targets

Aligning experiments





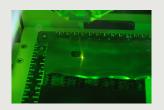
cutting targets

Aligning experiments





locating equipment



cutting targets

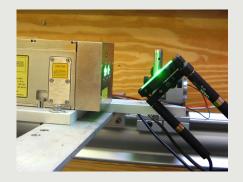
Aligning experiments





locating equipment

Even authenticating bank notes



U.B.C. Geology BIG GREEN LASER

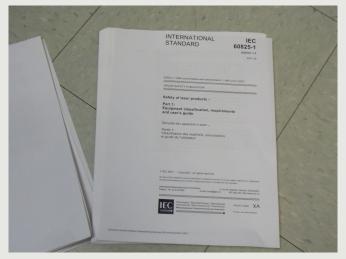




ANSI Z136



CSA 60825



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TRIUMF Safety Note



SAFETY NOTE 6.3.0: Laser Safety at TRIUMF

Prepared by: A. Johnson, L. Moritz

4004 Wesbrook Mall

Vancouver, B.C. Canada V6T 2A3







TRIUMF Safety Note



SAFETY NOTE 6.3.0: Laser Safety at TRIUMF

Prepared by: A. Johnson, L. Moritz

4004 Wesbrook Mall Vancouver, B.C. Canada V6T 2A3 "At TRIUMF, all lasers greater than Class 1 must be registered with the TRIUMF Occupational Health and Safety Officer (OH&S)."



Laser safety report for the laser spectroscopy laboratory (ISAC I room 117)

1 General definitions

Area Laser spectroscopy laser laboratory ISAC I room 117, local 7468/6396

Laser safety officer Matthew Pearson, TRIUMF pearson @triumf.ca, local 7538

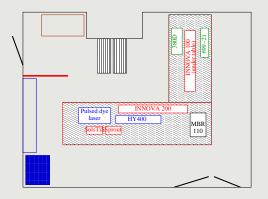
2 Procedures, authorisation and training

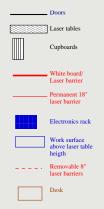
- Authorised personnel are those that have completed the general TRI-UMF laser safety training including a baseline ophthalmic examination in addition to the specific laboratory orientation
- Short term visitors who provide written evidence of being registered laser users at their home institution need only take the specific laboratory orientation.
- A log book for each laser will be kept. This will include a list of authorised users of that laser as well as general procedures for use and a copy of the TRIUMF laser permit

3 Laser safety measures within the room

The room has been modified from it's original form that was in use as the ISAC control room. These modifications amount to the addition of a second entrance in the south east corner as well as enharging the north west door to allow large equipment such as laser tables to enter the room safely. The north and east walls retain a significant area of window, these have been

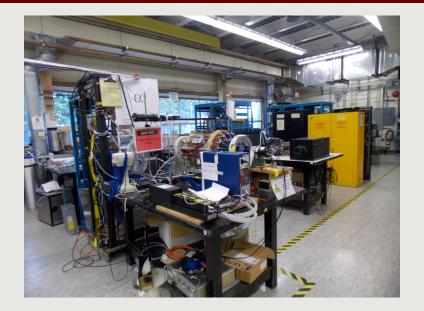
Defined laser laboratories







Accommodating experimenters





Accommodating experimenters



Summary

- · Lasers are commonly in use everywhere
- Many users have no idea about the associated hazards
- Non light related hazards are significantly lower than they used to be but still exist
- Continual education and vigilance is required to enforce the rules