



# Safety regulations

## **Safety Engineer:**

Henri Schweitzer • +33 (0) 476207005 • [schweitz@ill.fr](mailto:schweitz@ill.fr)

Deputy: Gaëlle Rochex • [rochex@ill.fr](mailto:rochex@ill.fr)

## **Head of Radioprotection:**

Jean Tribolet • +33 (0) 476207167 • [tribolet@ill.fr](mailto:tribolet@ill.fr)

Deputy: Serge Million • [million@ill.fr](mailto:million@ill.fr)

## **Safety and security are top priorities for the ILL.**

All users of the ILL facility must obey the local administrative and safety rules of the ILL.

All external users carrying out an experiment at the ILL must have an Institute staff member as a Local Contact (LC), who will assist with the measurements. The LC knows ILL's safety regulations and has experience of the instrument concerned, thus ensuring its safe running and the efficient use of beam time. The LC is either proposed by the user on the proposal form or assigned by the ILL.

## **Proposal**

When users complete an experiment proposal form, they must mention any risks and safety issues which the experiment may imply, such as:

- risks associated with the sample (chemical, mechanical, biological, radioactive, ...)
- risks associated with the sample environment (use of high-pressure device, electrical equipment, chemical products, ...)

Any ancillary equipment supplied by the user must conform to the appropriate French regulations. Experimental conditions involving special safety requirements, such as the use of radioactive isotopes or chemically or biologically hazardous materials or others, should be clearly stated in the proposal. If you are in the slightest doubt, please contact the persons listed above. For sending radioactive samples to ILL, you have to fill in a specific form which is automatically sent to you when your proposal mentions this need.

## **Reception & safety training**

On arrival, all users are asked to sign a document accepting a certain number of safety issues, and are given booklets on safety at the ILL such as: protection against

radiation, general regulations on health physics, waste zoning and ILL safety in general.

All users must also view a 15 minute safety training video. PF2 users must provide a medical certificate stating that they are properly authorised to work with ionising radiation and that they have regular medical check-ups in their laboratory, i.e. they are a Designated Radiation Worker.

## **Experiment**

The samples to be used during the experiment must be those quoted in the original proposal. Any subsequent sample change must be approved by the ILL through the LC.

## **Radiological sample control**

It is of the utmost importance that all samples are measured for radioactivity by Health Physics after the experiment. On the invitation forms sent out by the ILL, users are asked to specify the name of the person who is responsible for the samples (one person per experiment). The nominated person must make sure to have the samples properly checked by Health Physics before their departure. They will be considered responsible if this is not carried out. If the designated person is not able to come to the ILL at the last minute, they must contact the ILL and communicate the name of the new responsible for the samples.

## **Individual dosimetry**

Users will be given a film badge and an operational dosimeter. These must both be worn at all times in all regulated radiation protection zones and in particular in the experimental areas. The operational dosimeter is read automatically as the user walks around the ILL past the many readers in place. The dosimeter results will be sent to the user's home laboratory health physics group or medical service.

## **Solitary workers**

A portable surveillance device for solitary workers must be used by all ILL and visiting scientists working evenings after 7:00 pm and during week-ends and public holidays. The device must be picked up by the user at the Level C reactor entrance before going to an instrument or a laboratory.

## **Biological and chemistry safety**

Please refer to the section "CHEMISTRY AND BIOLOGY LABORATORIES", p. 122