**Safety Report**

**Experiment Mxxxx: "Short Title... "**

Date

**Experiment Mxxxx Experiment Leader:**

Name(s)

University of ...

phone: xxx-xxx-xxxx email:

Local contact person: (or facility manager Syd Kreitzman)

**Experiment Mxxxx Safety Co-ordinator:**

Name(s)

University of ...

phone: xxx-xxx-xxxx email:

Local contact person: (or facility manager Syd Kreitzman)

**[Every experiment is different - modify this template as appropriate to circumstances]**

**Description:**

Experiment Mxxxx is a µSR experiment investigating ... . Experiments are performed on solid samples using positive / negative muon beams at the M15 / M20 / M9 muon channel, using the LAMPF/NuTime/DR/OMNI etc spectrometer.

**Definition of hazards:**

No unusual hazards unique to Mxxxx exist; only TRIUMF µSR Facility spectrometers and equipment are used. No new equipment is being introduced. High voltage (»2kV) detector power supplies and high current DC magnets are used in µSR spectrometers. Liquid helium and liquid nitrogen cryogens are used in cryostats to achieve the necessary low temperatures and also in superconducting magnets. Very strong magnetic fields are routinely generated by conventional and superconducting spectrometer magnets.

**Safety measures:**

Samples to be studied (list of **all** materials to be studied) are solids/crystals/liquids and do not pose a radioactive, fire or significant toxic hazard at any time. These samples may be safely handled without any protective equipment.

Normal precautions with regard to high voltage or high current power supplies and cabling will be practiced. High voltage power will be de-energized before connecting or disconnecting high voltage cabling and only appropriately rated cabling in good condition will be used. High current magnet power supplies will be de-energized and locked-out or disabled before making or breaking connections.

Cryogens are stored in approved dewars and transferred into cryostats using cryogen transfer lines. Appropriate safety equipment will be used when handling cryogens.

No loose magnetic objects such as tools will be left in the vicinity of spectrometer magnets.

**Definition of responsibilities**

The Experiment Leader is the person primarily responsible for the safe operation of the experiment. The Safety Coordinator designated by the Experiment Leader is responsible for ensuring that the apparatus and methods are safe, that appropriate procedures are established and implemented and that members of the team and other site personnel are made familiar with the safety systems and procedures for the apparatus and experimental area. Responsibilities include ensuring that the apparatus and procedures satisfy any Canadian national or provincial safety codes and regulations. The Safety Coordinator is responsible for being aware of the training status of each experimenter in the collaboration and for ensuring that each experimenter is appropriately trained. Each experimenter is responsible for employing only safe practices while at TRIUMF.

**Decommissioning and disposal**

Mxxxx uses only Facility equipment; no disposal is required. No hazardous materials (toxic or radioactive) are generated by the experiment. Samples will be returned to experimenters' home institutions.