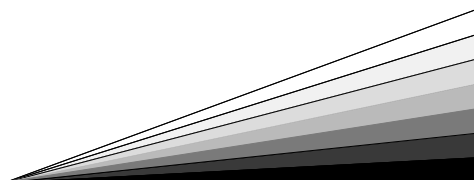


X-RAY SCIENCE DIVISION

436/D030 Facility Hazard Analysis



The purpose of this form is to serve as a summary of facility characteristics, recognized hazards, implemented hazard controls, pertinent sources of information, and incident reporting contacts.

Scope of work conducted in this facility: Technical support facility for sector 23 beamlines

Hazardous materials/equipment associated with this facility:

Chemical substances	Cryogenic instrumentation	Vacuum systems
Pressurized systems	Portable hand-held power tools	Biological risk group 1 & 2 agents

Hazards associated with this facility:

Chemical exposure	Cryogenic burns	>50 lbs. lifting
BSL 1 & 2 agent exposure		

Hazard controls implemented within this facility:

Engineered Controls

Chemical fume hood
GFCI outlets
Eyewash station & safety shower

Procedural Controls

Manual for rapid freezing of cells
SOP: small quantities of BSL 2 material

PPE

Safety glasses
Chemical-resistant / cryogenic gloves
Lab coats

Relevant ESH manual chapters that may be associated with this facility:

- 1) Ch. 4.3 - Laboratory and Chemical Safety
- 2) Ch. 4.10 - Cryogenic Liquid Safety
- 3) Ch. 7.12 - Safe Use of Tools
- 4) Ch. 13.1 - Pressure Systems Safety

Pertinent safety training courses that may be associated with this facility:

- 1) ESH115: Laboratory Hazard Communication Training
- 2) ESH119: Pressure Safety Orientation
- 3) ESH141: Portable Hand & Power Tool Safety
- 4) ESH 145: Cryogenic Safety
- 5) ESH574: Chemical Waste Generator
- 6) APS223: Sector-Specific Orientation

Note: This is not intended to be an all-inclusive list of training that is required to work within this facility. The authoritative record of required training is depicted by the individual's JHQ.

Incident reporting contacts :

******Dial 911 in an emergency******

Lab Safety Captain:	Ruslan Sanishvili	Extension: 2-0665
Group Leader:	Robert Fischetti	Extension: 2-0660
ES&H Coordinator:	Paul Rossi	Extension: 2-4192

Facility hazard analysis completed by: _____
Lab Safety Captain or designee Date

Reviewed and approved by: _____
ES&H Coordinator Date

_____ Date
Line Management

This hazard analysis must be reviewed and updated accordingly whenever conditions change. Once approved, this hazard analysis must then be posted in a conspicuous space within the facility.