X-RAY SCIENCE DIVISION

401/L2104

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: Organic and inorganic sample preparation and characterization; polymer thin film deposition using spin coater; sample bake-out and sample storage.

Hazardous materials/equipment associated with this facility:

Bake-out Oven	Solvents
Centrifuge	Acids and Bases
Ellipsometer	Syringes/Needles

Hazards associated with this facility: Electrical Thermally Hot Surfaces

Chemical Cryogenics

Hazard controls implemented within this facility:

Engineered Controls
Flammable Storage Cabinet
Acid/Bases Storage Cabinets
Chemical Fume Hood
Lamellar Flow Hood
Safety Eyewash/Shower Station
GFCI Outlets

Procedural Controls Satellite Waste Accumulation Area Limited Access Sharps/Glass Disposal Bins ESAF Authorization Task Specific SOP

Compressed Gases Flammable Liquids

Punctures Compressed Gases

PPE Safety Glasses/Goggles Chemical Resistant Gloves Chemical Resistant Apron

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

1) Ch. 4.1 - Hazard Communication

2) Ch. 4.3 - Laboratory & Chemical Safety

3) Ch. 9.1 – Electrical Safety

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

1) ESH115 - Laboratory Hazard Communication Training

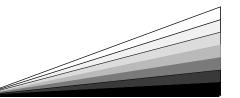
2) ESH574 - Chemical Waste Generator

3) Standard APS Training Courses for Users

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:	Ray Ziegler Extension:		Extension: 2-5527	
TRR Group Leader:	Alec Sandy Extension: 2-0		Extension: 2-0281	
ES&H Coordinator:	Paul Rossi	Extension: 2-4192		
Facility hazard analysis complete Reviewed and approved by:	ed by:	Lab Safety Captain or designee		Date
		ES&H Coordinator		Date
		Line Management		Date

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



X-RAY SCIENCE DIVISION

401/L2104

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: Organic and inorganic sample preparation and characterization

Hazardous materials/equipment asso Oven Centrifuge Sharps (Syringes)	ciated with this facility: Solvents Acids and Bases Ultraviolet Light	Compressed Gases Flammable Liquids			
Hazards associated with this facility: Electrical Compressed Gases	Chemical	Thermally Hot Surfaces			
Hazard controls implemented within this facility:					
Engineered Controls Flammable Storage Cabinet Chemical Fume Hood Safety Eyewash/Shower Station Ultraviolet Light Enclosure	Procedural Controls Glass Disposal Bins Limited Access ESAF Authorization Instrumentation SOPs	PPE Safety Glasses/Goggles Chemical Resistant Gloves Lab coats			
Relevant FSH manual chapters that may be associated with this facility:					

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

1) Ch. 4.1 – Hazard Communication

2) Ch. 4.3 – Laboratory & Chemical Safety3) Ch. 9.1 – Electrical Safety

5) Ch. 9.1 – Electrical Safety

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

1) ESH115 – Laboratory Hazard Communication Training

3) Standard APS Training Courses for Users

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:					
	**** D i	al 911 in an emergency****			
Lab Safety Captain:	Sungwon Lee		Extension: 2	2-3467	
TRR Group Leader:	Randy Winans		Extension: 2	2-7479	
ES&H Coordinator:	Paul Rossi		Extension: 2	2-4192	
Facility hazard analysis complete Reviewed and approved by:	d by:	Lab Safety Captain or designee		I	Date
		ES&H Coordinator		Ι	Date
		Line Management		I	Date

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