HAZARD ANALYSIS & Project Review Form

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Table of Contents

1. Experiment Program Description:	1
2. Organization and Responsibilities:	1
3. Facility Description: 3.1. Location	1
3.2. Experimental equipment 3.3. Controls	1 2
3.4. Support and service equipment: 3.4. Support and service equipment:	2
4. Operating and Maintenance Procedures: 4.1. Operating Procedures 4.2. Maintenance Procedures 4.3 Experiment Procedure	2 2 2 2
5. Training:	2
6. Hazards for Normal Operations	2
7. Hazards for Postulated Accidents:	5
8. Safety Systems and Equipment:	5
9. Safety Procedures	5
9. Safety Procedures	5
Environmental Compliance Procedures:	5
Emergency Procedures	5
Waste Management Considerations	5
List of Applicable Documents	5

Hazard Analysis & Project Review Form

1. Experiment Program Description:

A brief Description of the project with enough information to give the review committee an understanding of the scope of the project and the equipment involved.

2. Organization and Responsibilities:

- 3. Facility Description:
- 3.1. Location

Location of the equipment/facility at Argonne (building / room)

3.2. Experimental equipment

A brief description of the equipment used in the project

3.2.1. Item 1

description

3.2.2. Item 2

description

Figure 1
Include figure(s) of equipment if helpful

3.3. Controls

A description of the equipment controls used in the project, if that would help explain the equipment.

3.4. Support and service equipment:

In addition to the equipment mentioned above, the following will be used:

A description of any electrical, water, utility or safety systems that will be used in the project B if this would clarify the scope of the project.

4. Operating and Maintenance Procedures:

- 4.1. Operating Procedures
- 4.2. Maintenance Procedures
- 4.3 Experiment Procedure

5. <u>Training</u>:

List any training necessary which is unique to this projector the use of this equipment (laser, radiation, chemical, electrical, etc. training.)

6. Hazards for Normal Operations

The checklist below is derived from the ES&H Manual. While it appears to be rather extensive, it is a handy listing of the types of hazards that may be present when we work. Use it to list any hazards present in the set-up, running and removal of the project. Mark the AYES@ or ANO@ column for each hazard listed.

For each AYES@ marked, explain below the form what the hazard consists of. Use the AREMARKS@ column to direct the reader to the sub-section explaining the hazard.

Note that this section addresses the hazards associated with normal operations of the Project or Facility. The hazards associated with postulated accidents are addressed in Section 7.

TABLE 6-1

POTENTIAL HAZARDS CHECKLIST (ANL-E ES&H Manual Section 21.2, Appendix A)

POTENTIAL HAZARD	YES	NO	REMARKS					
Radiation and Electromagnetic Fields								
Ionizing Radiation								
Alpha								
Beta								
Gamma and/or X-Ray								
Neutron								
Proton								
Subatomic								
Nonionizing Radiation								
Laser	Ī							
Visible Light								
Ultraviolet								
Microwave								
Radiofrequency								
Electric Fields								
Magnetic Fields								
Chemi	cals and	d/or Mat	erials					
Healt	h and Inj	iurv Haz	ards					
Carcinogens		ľ						
Mutagens								
Teratogens								
Toxins								
Corrosives								
Irritants, Allergens, and/or Sensitizers								
Volatile Solvents								
Combus	tion and	Injury H	lazards					
Flammable Liquids and/or Solvents								
Metallic Combustibles								
Flammable Gases								
Compressed Oxygen								
Open Flame or Sparks								
Combustible Materials								
Explosives								
Flammable Suspended Dust Particles								
Pyrophoric Chemicals								
Respiratory	or Cont	act Injur	y Hazards					
Cryogenics								
Thermal (High or Low)								
Dust, Particulates, and Fibers								
Asbestos								
Explosives								
Reactive Chemicals								
Compressed Gases								
Pressure and/or Vacuum Systems								

POTENTIAL HAZARD	YES	NO	REMARKS			
Steam						
Asphyxiation						
•						
Stored Energy Not Elsewhere Addressed						
Hydraulic Energy						
Kinetic Energy						
Mechanical Energy						
Potential Energy						
Other						
	Biohaz	zards				
Virus						
Bacteria						
Human Tissues and/or Body Fluids						
Animals and Animal Tissue		<u> </u>				
	Elect	rical				
	Electi	ilcai				
High Voltage Devices						
Storage Devices						
Static Charge						
Lightning Protection						
Grounding						
Exposed Conductors						
	Mecha	nical				
Lifting Devices	Wieciia					
Low Friction Surfaces						
Load-Bearing Components						
Vibration						
Sharp Points or Edges						
Moving Parts						
Pinch Points						
Ladders, Scaffolds, and/or Platforms						
	ork Envi	ronmer	nt			
Activities at Known or Suspected						
Hazardous Waste Sites						
Use of Self-Contained Breathing						
Apparatus		-				
Temperature or Other Climatic Extremes						
Severe Weather		-				
Noise		 				
Confined Spaces		-				
Others (Tripping Hazards)		-				
Outers (Tripping Hazarus)	<u> </u>					

- 6.1. First hazard listed
- 6.2. Second hazard listed, etc.

7. Hazards for Postulated Accidents:

Include here the potential accidents that can occur when setting up, using or taking down the project/equipment. The list above can be used as a guide.

8. Safety Systems and Equipment:

List any safety systems or equipment installed specifically for this project, or which will have direct consequences for the potential hazards listed for this project or equipment.

9. Safety Procedures

List any safety procedures created for the project or equipment.

10. Environmental Compliance Procedures:

Does this e	experiment	or equipment	meet the	definition	of the	NEPA	bench	scale
exemption	YES 🗌	NO						

If NO, NEPA documentation is required. Contact Tom Mullen 2-2879

List any procedures you needed to create (if any) for environmental compliance purposes.

11. Emergency Procedures:

List any emergency procedures you have created to handle the accidents listed in #7 above.

12. Waste Management Considerations

List the waste you expect to generate (by type,) and the means you will use to dispose of it.

13. <u>List of Applicable Documents</u>