Chemical Storage Map

Building:	Room:	Date:

LSB
Life Safety Box

Fire Extinguisher

Shower

Eyewash

Shower & Eyewash

Free-Standing Cabinet

Fume Hood

Natural Gas Outlet

Gas Cylinder

Floor-Standing Equipment

Refrigerator and/or Freezer

Door

Hazards Key

Hazard #	Description	Threshold Quantity
1	Explosive	Forbidden
2.1	Flammable Gases	1 cu ft
2.2	Non Toxic/Flam Gases	1 cu ft
2.3	Toxic gases	1 cu ft
3	Flammable Liquid	5 gals or 40 lbs
4.1	Flammable Solid	40 lbs
4.3	Water Reactive Flammable	1 gal or 8 lbs
5	Oxidizer	1 gal or 8 lbs
6.1	Toxic Solid or Liquid	1 gal or 8 lbs
7	Radioactive	Level B Storage or Radiation Producing Machines
8	Corrosive	5 gals or 40 lbs
9	Other Miscellaneous Hazards	Above as appropriate
BL2/3	Biohazards	Any material containing Biosafety level 2 or 3 agents

INSTRUCTIONS FOR COMPLETING THE ROOM HAZARD MAP FOR THE LIFE SAFETY BOX

1.General

Complete the top of the map with your building name, room number, and the date.

2. Equipment

a. Draw an outline of the room and fixtures including:
- · Doors
- · Benches and cabinets
- · Floor-standing equipment

b. Indicate the location of safety equipment using the symbols shown on the right side of the Map template.

c. Label refrigerators, floor-standing cabinets, fume hoods, and gas cylinders using the symbols shown on the right side of the map template.

d. Label natural gas outlets with the symbol shown on the map.

3. Chemical Hazards

a. Remove the "Guide to Hazard Quantities" and the “Hazardous Materials Inventory” from the Life Safety Box.

b. Compare the quantities of each Hazard Category given on the "Guide to Hazard Quantities" in the LSB box Printouts to the threshold in the "Hazards Key" on the map template.

c. If the quantity stored exceeds a corresponding threshold, mark the main storage areas for the Hazard Category with the corresponding hazard number on the map. If necessary, check the detailed “Hazardous Materials Inventory” to identify the specific compounds that fall within the Hazard category and then determine where those compounds are stored.

(For example, your "Guide to Hazard Quantities" indicates that you have a total of 3 gallons of oxidizers and 1 pound of moderate poisons. The amount of oxidizer exceeds the threshold of 1 gallon given on the Hazards Key and since you store most of this material in two locations, you mark both of these locations on the map with a number 5. A container of dilute oxidizer solution is stored on the bench top and because this is a minimal amount, you do not mark this location on the map with the number 5. The amount of moderate poison does not exceed the threshold of 8 pounds and thus you do not mark the map with hazard number 6.1.)

d. Stop after you reach Hazard Category 9.

4. Other Hazards

If applicable, use the number or letters annotated on the Hazards Key to indicate the location of the following hazards:

· Biosafety Level 2 or 3 materials storage
· Radiological materials storage
· Radiation producing machines