

## **Chemistry Department**

# **Fire Prevention Plan**

**for**  
**Logan Hall**  
**1600 Herald Avenue**

*Xavier University*  
*October 18, 2006*

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## Fire Prevention Plan

### 1. Introduction

This Fire Prevention Plan has been developed to identify workplace fire hazards and their control procedures. It also addresses the type of fire protection equipment or systems available in the building, the responsibilities of employees to reduce and respond to fire hazards, and the names of those personnel responsible for maintenance of fire protection equipment. This Fire Prevention Plan (FPP) includes the Logan Hall location at 1600 Herald Avenue on the campus of Xavier University for *Chemistry Department* employees. This plan is designed to comply with the Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1910.38.

### 2. Responsibilities

#### 2.1 *Portable Fire Extinguishers*

The Logan Hall location of Xavier University is equipped with type ABC portable fire extinguishers. A monthly inspection is conducted by Physical Plant personnel to ensure that extinguishers are charged, accessible and in overall good condition. An annual inspection is conducted by a contractor, who is responsible for recharging the extinguishers and ensuring that mounts are in good condition. Following is the name and phone number of the contractor performing this duty:

<u>Name</u>	<u>Phone Number</u>
Cintas Fire Protection	751-8384

#### 2.2 *Fire Suppression Systems*

The Chemistry Department Stockrooms in the basement and on the second floor are each protected by a Halon 1301 Extinguishing System. These systems are inspected annually by Cintas Fire Protection who is responsible for testing the systems and identifying discrepancies in them. Once discrepancies are identified and reported to the Physical Plant, measures are taken immediately to correct the problem.

### 3. Major Workplace Fire Hazards

The following is a list of potential workplace fire hazards, which could be encountered in Logan Hall:

- Waste paper, cardboard and other combustible waste.
- Solvents and other flammable or combustible chemicals used in chemistry laboratory classes. The Material Safety Data Sheet (MSDS) should be referenced to determine which materials fall into this classification.

#### **4. Methods of Handling and Storage**

Paper products (e.g., waste paper, cardboard) are removed and disposed of on a regular basis so that large amounts are not accumulated in Logan Hall.

Chemistry Laboratories use flammable and combustible materials. All waste chemicals are disposed of through a waste disposal contractor. Combustible chemicals are stored away from open flames in fire resistant cabinets. Small quantities of combustible chemicals are stored in hoods or solvent cabinets away from potential ignition sources.

#### **5. Potential Ignition Sources and Control**

Potential ignition sources include matches, lighters, ignited cigarettes, flames and sparks generated from welding or cutting operations. Some flammable materials may ignite from prolonged exposure to heat. Sources of heat include radiators, space heaters, water heaters, boilers and the sun.

Potential ignition source control is conducted through various means. These include but are not limited to the following; a) prohibition of the use of matches, lighters, and smoking products in University buildings; b) prohibition of welding or cutting in areas containing flammable or combustible materials; c) the proper storage and handling of rags containing flammable or combustible materials; d) proper storage of fuel and chemical containers.

#### **6. Housekeeping**

The following individuals are designated as responsible for the control of fuel source hazards (i.e., controlling accumulations of flammable and combustible materials so that they do not contribute to a fire emergency). These employees and their material of concern are as follows:

<u>Name</u>	<u>Location</u>	<u>Material of Concern</u>
Building Coordinator	Logan Hall	General building cleanliness and flammable concerns

Chemical Stores Manager/ Safety Officer	Logan Hall	Solvents, flammable chemicals
Associate Director of Building Services	Alumni Center	Waste paper, cardboard and other combustible waste

Housekeeping procedures to control accumulations of flammable and combustible waste materials are described below:

- Large amounts of flammable products are stored in fire resistant storage cabinets that are located away from open flames or high heat sources. Smaller amounts of flammable and combustible products are stored away from open flames and high heat sources.
- Physical Plant personnel are responsible for disposal of materials that are potentially flammable or combustible. These include chemicals not disposed of by the disposal contractor, waste paper, cardboard, etc. Chemistry Department personnel are responsible for ensuring that materials that are placed in waste containers are away from potential ignition sources.

## 7. Training

Training will be provided to all Chemistry Department personnel. This Fire Prevention Plan will be reviewed with employees at the following times:

- When the plan is developed
- Whenever the employee's responsibility changes
- Whenever the plan is changed