

# FIRE SAFETY PLAN FOR:

**Maintenance Building**  
Lakehead University  
955 Oliver Road  
Thunder Bay, Ontario  
P7B 5E1

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Reviewed with change - June 2025

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Prepared by:

Brenda Huska  
Lakehead University  
Health & Safety

Approved by:

Kevin Anderson  
Director of Fire Prevention  
Thunder Bay Fire Rescue

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## Chapter 1: Introduction

As required by the Ontario Fire Code, Section 2.8, (Ontario Regulation 213/07 of the Ontario Fire Protection and Prevention Act, as amended), this Fire Safety Plan has been prepared by Lakehead University for the Maintenance Building, 955 Oliver Road, Thunder Bay, Ontario.

The purpose of the plan is to provide safety information for all occupants in the event of a fire, to ensure the effective use of life saving features in the building, and to prevent fires from being initiated. This fire safety plan has been designed to suit the resources of the Maintenance Building. This plan must be approved by Thunder Bay Fire Rescue; however, Lakehead University is responsible for ensuring that the information provided in this fire plan is accurate and complete.

Information found within this Fire Plan includes: contact information, an audit of building resources, maintenance of building resources (as required by the Ontario Fire Code), building schematics, and an outline of responsibilities, emergency procedures, control and extinguishment of a fire, fire protection measure and fire hazards and prevention.

The Fire Protection and Prevention Act, Part VII, Section 28 states that any person who contravenes any provision of the fire code is guilty of an offence. If convicted a company or corporation is liable to a fine of not more than \$100,000. Any individual, director or officer of a corporation is liable for a fine of not more than \$50,000 or imprisonment for a term of not more than one year, or both.

The Fire Safety Plan shall be reviewed as often as necessary, but at intervals not greater than twelve (12) months, to ensure that it takes account of changes in use and other characteristics of the building. The Chief Fire Official is to be notified regarding any subsequent changes in the contents of the approved Fire Safety Plan.

This official document is to be kept readily available at all times for use by staff and fire officials in the event of an emergency

**The approved location of the Fire Safety Plan for the Maintenance Building is the Security Office, UC 1016.** In addition, copies will be kept in the Health & Safety Office and in a Fire Safety Plan box located by the Fire Alarm Annunciator.

Electronic copies of the Fire Plan will be posted on the Health & Safety website.

## Chapter 2: Audit of Human Resources

Building Owner	Lakehead University 955 Oliver Road Thunder Bay, ON P7B 5E1 Phone: 807-343-8110
President	Dr. Gillian Siddall 955 Oliver Road Thunder Bay, ON P7B 5E1 Phone: 807-343-8010 ext.8200
Vice President, Finance& Administration	Kathy Pozihun Phone: 807-343-8010 ext.8383
Director, Physical Plant	Hugh Briggs Phone: 807-343-8010 ext.8790
Health & Safety, Office of Human Resources	Brenda Huska Phone: 807-343-8010 ext.8806 Tiffany Moore Phone: 807-343-8010 ext.8671
Security Staff	On site 24/7, minimum 3 people Phone: 807-343-8911 (Emergencies) Phone: 807-343-8010 ext.8569 (Non-emergency)
Maintenance Staff	Physical Plant, available from 8am to 4pm (After hours contact Security) Phone: 807-343-8010 ext.8273
Cleaners	Physical Plant, Arno Kalbus, Facilities Manager Phone: 807-343-8010 ext.8962 Physical Plant, Services Supervisor, Phone: 807-343-8010 ext.8968
Fire Alarm Monitoring Company	Tbay Tel Phone number and passwords are held by Security Services (807-343-8010 ext.8569).

## Chapter 3: Audit of Building Resources

### 3.1 General Description

The Maintenance Building located at 955 Oliver Road is a non-combustible one (1)-storey building constructed in 1989.

#### i. Occupancy and Use

**Main Floor-** Janitor closet, Storage room, Washroom, offices, shop, garage.

### **ii. Fire Department Access**

Firefighters will access the property via Balmoral Street, Lakehead University Drive South entrance. Security Services will call in detailed instructions to the city's Emergency Service Dispatch and provide specific information regarding the alarm, including the building entrance to use and any details concerning the fire (ie. Which zone is affected).

## **3.2 Fire Alarm System**

This building is provided with an Edwards EST1 single stage system.

Annunciator Panel location: Maintenance Building MB 1006. A parallel unit is located in the security office, UC 1016.

### **i. Sequence of Operation**

Upon activation of a fire alarm initiating device in any portion of the building, a general fire alarm will sound throughout the building.

### **ii. Ancillary Functions**

*The fire alarm system is activated by:*

- Manual pull stations
- Heat detectors

*Upon activation of the fire alarm system:*

- A fire alarm signal will be transmitted to the Security Office and confirmed at their annunciator panel. A fire alarm signal will also be transmitted to an independent off-site monitoring station.
- The fire alarm annunciator and control panel will display information regarding which zone is affected.
- Fans will shut down.

## **3.3 Standpipe System**

The Maintenance Building is not equipped with a standpipe and hose system.

The standpipe connections Fire Department access is located on the south exterior of the Prettie Residence located to the north of the Maintenance Building.

## **3.4 Fire Hydrants**

Private hydrants are located as shown on the site plan. The private hydrants are connected to the municipal water supply.

## **3.5 Fire Extinguishers**

Fire extinguishers are located throughout the building. See floor plans for locations.

### 3.6 Emergency Power

Emergency power is provided by the emergency generator in the powerhouse building (1 megawatt Kohler generator). This emergency generator runs off diesel fuel and will power the main campus for a maximum of 4 days. Emergency power supplied to the Maintenance Building will run the Emergency Lighting and the Fire Alarm System.

The fire alarm system is equipped with battery backup contained within the fire alarm panel. In the event of a power failure, the batteries provide sufficient power to allow the fire alarm to operate in “supervision” mode for 24 hours and the alarm to sound for at least 60 minutes.

### 3.7 Main Hydro Shut-Off

The main hydro disconnect switch is located on the East side of the building in MB 1014, as shown on the site plan.

### 3.8 Water Shut-Off Valve

The main water shut-off valve for the Maintenance Building is located in mechanical room MB 1014, as shown on the floor plan.

### 3.9 Natural Gas Shut-Off Valve

The natural gas shut-off valve for the Maintenance Building is located on the exterior of the Maintenance Building on the North East corner.

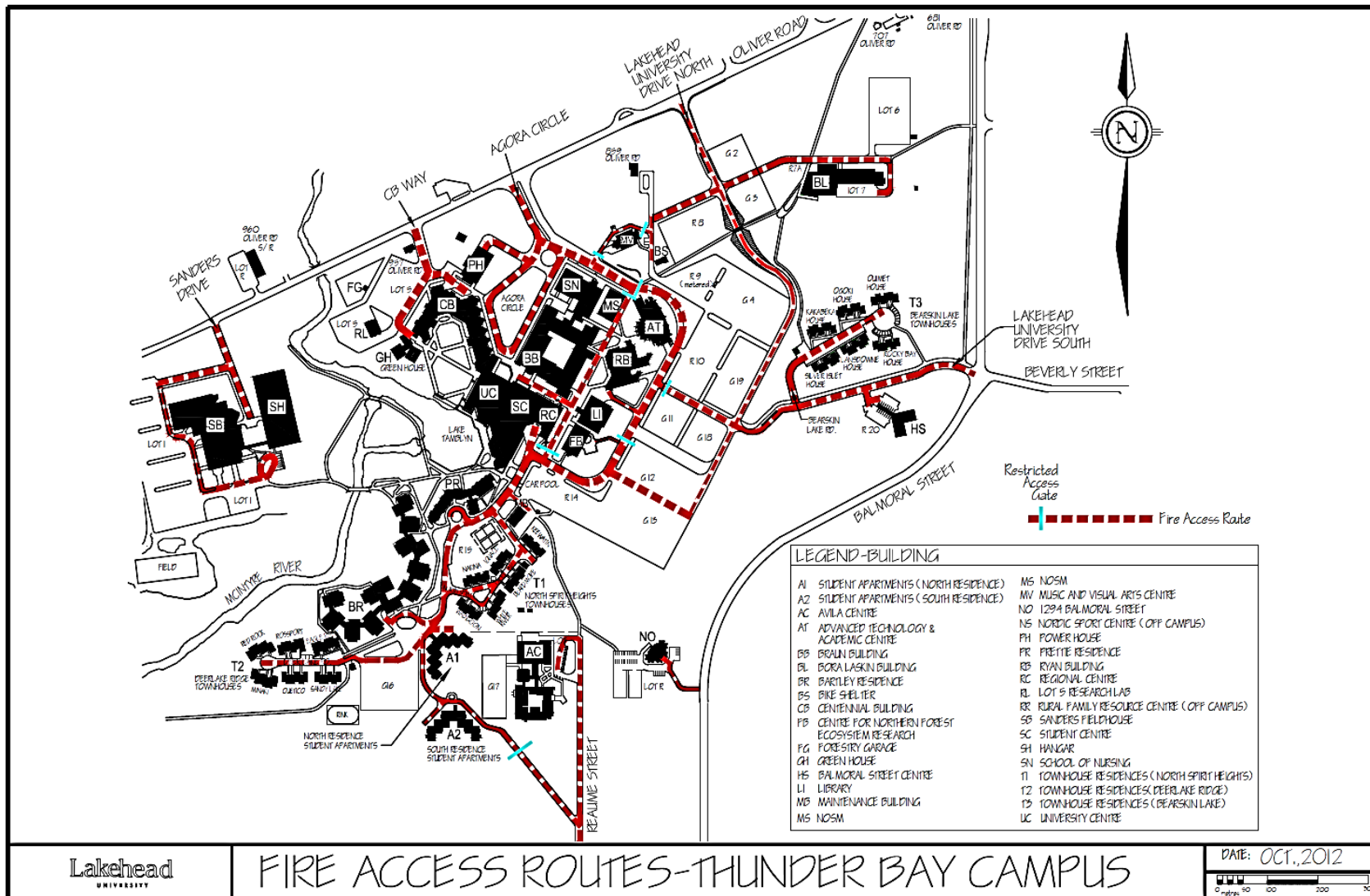
### 3.10 Hazards

Commercial products are kept in the Maintenance Building as well as a limited quantity of welding gases and flammable liquids.



## Chapter 4: Building Schematics

## 4.1 Fire Access Routes



The diagram is a site plan for the Maintenance Building. It shows a large building complex with several sections. A red dashed line indicates the fire department primary entrance, leading from the top right towards the center. A blue arrow indicates an alternate entrance from the bottom right. A yellow star marks the evacuation meeting location in the bottom left. A red circle with an 'H' and a cross indicates a hydrant. A purple 'GAS' symbol with a cross indicates a gas shutoff valve. A hatched rectangle indicates flammable/propane storage. The plan includes labels for 'TO BALMORAL STREET ENTRANCE', 'CAR POOL', 'PR', 'MB', 'KEEWATIN', and 'R15'. A north arrow is in the top left corner.

**LEGEND**

- HYDRANTS
- EVACUATION MEETING LOCATION
- FIRE DEPARTMENT CONNECTIONS
- FIRE DEPARTMENT PRIMARY ENTRANCE
- ALTERNATE ENTRANCE
- GAS SHUTOFF VALVE
- FLAMMABLE / PROPANE STORAGE

**MAINTENANCE BUILDING SITE PLAN**

DATE: 2023-05-01  
SCALE: N.T.S.

**MAIN FLOOR PLAN**

**MAINTENANCE BUILDING**

**LEGEND**

- E** FIRE EXTINGUISHER
- MANUAL PULL STATION
- FAA** FIRE ALARM ANNUNCIATOR
- ⚡** MAIN ELECTRICAL DISCONNECT
- ⛽** GAS SHUTOFF VALVE
- FIRE DEPARTMENT PRIMARY ENTRANCE
- ALTERNATE ENTRANCE
- ▨** FLAMMABLE STORAGE

DATE: 2023-05-01  
SCALE: N.T.S.

## Chapter 5: Responsibilities & Emergency Procedures

The preparation and implementation of a Fire Safety Plan, helps to assure effective use of people and resources to control and eliminate fire hazards in the workplace and to respond effectively to a fire emergency. This will reduce the incidence of fire, protect life safety and reduce the impact of fire should one occur.

***The procedures outlined in this Plan will be conducted with all due regard for personal safety***

It is not the intent of this Plan to place a person in a hazardous situation that they are not trained or properly equipped for.

Many parties will have a role to play in promoting fire safety in the workplace. Each party will be responsible for certain administrative functions to be performed throughout the year. Some may be responsible for ensuring that tasks are carried out, while others may be responsible for carrying out those tasks.

### 5.1 Building Owner and Management (President, VP Finance & Administration)

The Ontario Fire Code defines “owner” as “any person, firm, or corporation having control over the property under consideration”. Article 1.2.1.1 of the Ontario Fire Code states, “Unless otherwise specified, the Building owner is responsible for carrying out the provisions of this Code”. Therefore, owners must take responsibility for ensuring compliance with the Ontario Fire Code.

#### i. Tenants

Tenants or lease holders who have control over any building or a portion of a building also have obligations in regards to fire safety. These specific obligations may be accounted for under the terms of any contracts between these parties. For tenants of Lakehead University Property, the physical requirements of the Fire Code will be provided by Lakehead (e.g. Maintenance of the facility and fire safety equipment). Tenants will be responsible for the personnel in their area and must generate their own fire emergency procedures and evacuation plans. Tenants must ensure that the Ontario Fire Code is not contravened, for example, allowing fire hazards to exist within their area.

The building owner / occupant have numerous responsibilities related to fire safety and must ensure that the following measures are enacted:

Responsibilities	Owner	Tenant
Comply with the Ontario Fire Code	X	X
Ensure the Fire Safety Plan is developed, approved and fully implemented	X	
Keep a copy of the approved Fire Safety Plan on the premises in an approved location	X	X

Lakehead University will review the Fire Safety Plan annually and revise when changes occur that will affect the information therein, such as contact information or changes to the fire protection system	X	
Lakehead University will ensure the Chief Fire Official is notified regarding changes in the Fire Safety Plan	X	
Establishment of emergency procedures to be followed at the time of an emergency	X	X
Post and maintain at least one (1) copy of the fire emergency procedures	X	X
Appointment and organization of designated supervisory staff (i.e. Managers, Fire Wardens, Maintenance staff, Security) to carry out fire safety duties	X	X
Instruction of supervisory staff and other occupants so that they are aware of their responsibilities for fire safety	X	X
Designate and train sufficient alternates to replace supervisory staff during any absence. <i>"Supervisory staff shall be instructed in the fire emergency procedures as described in the fire safety plan before they are given any responsibility for fire safety", as outlined in Section 2.8.1.2. (1) of the Ontario Fire Code.</i> It is not necessary that the supervisory staff be in the building on a continuous basis, but they shall be available on the notification of a fire emergency, to fulfill their obligations as described in this Fire Safety Plan	X	X
Hold drills in accordance with the Ontario Fire Code and in consultation with the Chief Fire Official, incorporating Emergency Procedures appropriate to the <u>Maintenance Building</u>	X	
Keep adequate records of training and fire drills for a period of at least one-year	X	
Ensure that hazards are identified and eliminated or controlled	X	X
Maintenance of building facilities and ensure that building life safety and fire protection systems provided for occupant safety are maintained	X	
Provisions of alternate measures for safety of occupants during shut down of fire protection equipment	X	
Assuring that checks, test and inspections as required by the Ontario Fire Code are completed on schedule and that records are retained for a minimum period of two (2) years	X	

## 5.2 Employers, Managers and Supervisors

Employers are responsible for fire safety within their area of operation. Employers, Managers and Supervisors must:

- Comply with the Ontario Fire Code within the space you control or lease.
- Ensure that Fire Wardens have been designated and trained to carry out the duties assigned to them under this Plan. Contact Human Resources for a current list of building Fire Wardens.
- Identify key personnel in your department requiring fire extinguisher training. To arrange training for personnel contact the Office of Human Resources – Health & Safety (807-343-8010 Ext 8806).

- Review the fire emergency procedures outlined in this Plan with your employees.
- Ensure any person who requires assistance to evacuate the building is identified and that a specific plan is established in the event of an emergency. This plan will be formulated in consultation with the area's Fire Warden.
- Practice and encourage employees to participate in fire drills conducted in the building.
- Encourage employees to cooperate with Fire Wardens and Security staff as they provide direction during fire alarms and building evacuations.
- Respond to any requests to eliminate fire hazards.
  - Eliminate those departmental fire hazards which you can control.
  - Report any fire hazards that you cannot control to Security, Physical Plant or another Supervisor or department (when another department is involved).

### **5.3 Physical Plant (Mechanical & Electrical Staff)**

- Be familiar with the floor area, exits, the locations of any fire safety equipment and the sound of the building's fire alarm.
- Be familiar with the operation of all fire protection and life safety systems and equipment.
- Provide specific checks, tests, and inspection requirements of the Ontario Fire Code assigned to you, as summarized in Chapter 11 of this Plan.
- Notify the appropriate persons of any planned or unplanned shutdown of fire protection or life safety equipment.
- Assist in implementing alternate measures for fire safety to compensate for the inactive system, as outlined in the Chapter 9 of this Plan.
- Restore the fire protection and fire alarm systems to normal operation after repairs or maintenance are completed or as soon as you are authorized to do so after an emergency.
- Assist in fire prevention by controlling fire hazards and conditions of possible safety threats.
- Promptly address and correct any fire hazards reported to you.
- Physical Plant will be notified by Security of any fire drills taking place.

#### **i. Emergency Procedures -Physical Plant Staff**

Upon notification by Security Services that a fire alarm has been activated, Physical Plant staff will stand by for further instructions.

#### **Electrical Staff will:**

- Be notified of all fire alarms and attend the site of any actual fire emergencies, or if the fire alarm system cannot be reset by Security Services.
- Prepare to disconnect the electrical service to the affected area. Disconnection will be at the direction of the Fire Department.
- Request assistance of other Physical Plant Departments as needed.

## 5.4 Security

- Be familiar with the floor area, exits, the locations of any fire safety equipment and the sound of the building's fire alarm.
- Participate in fire drills as described in this Plan.
- Assist in fire prevention by controlling fire hazards and conditions of possible safety threats.
- Promptly report or correct any fire hazards you have been informed of.
- Provide specific checks, tests, and inspection requirements of the Ontario Fire Code assigned to you, as summarized in the Chapter 11 of this Plan.
- Notify the appropriate persons of any planned or unplanned shutdown of fire protection or life safety equipment.
- Assist in implementing or arranging alternate measures for fire safety to compensate for the inactive system, as outlined in Chapter 9 of this Plan.
- Be familiar with the procedures and operation of the Fire Alarm and Security Systems.
- Be familiar with your role upon notification of a fire alarm.
- Know where the Fire Plan is kept and how to access the buildings material safety data sheets.
- Security must have quick access to fire safety equipment (Fire Alarm Panel, generator room, pull station keys, elevator keys, and service/fire access roads).
- Be available to assist the Fire Department.

***As with any emergency Fire Alarms will take priority over any other university business***

### i. Emergency Procedures- Security Services

***Upon receiving notification of a fire alarm at the security office, you will:***

1. Check the fire panel and print out for the exact location of the alarm.
2. Over the radio, notify the security personnel and dispatch all patrol officers to the appropriate building.
3. Call the monitoring company and verify they have received the alarm signal and have contacted the fire department.
4. Open electronic access gates if present on the buildings Fire Access Route.
5. Await further instructions from the Security Officers on the scene. Upon receipt of a report from the Security Officer on scene, the Security will:
  - a. Contact Fire Dispatch (807-684-1525) to provide specific information regarding the alarm.
  - b. Contact Physical Plant and Electrical staff (807-343-8010 Ext 8273) if there is a known fire.
6. Alert Human Resources at 807-343-8010 Ext 8806 or 807-343-8010 Ext 8671. After hours use the Emergency Contact numbers on file.
7. DO NOT touch the fire panel.
8. Any information received on the cause of the alarm will be relayed immediately to the Security Officers on scene.



9. Ensure the Fire alarm system is not silenced or reset until authorization is given by the Fire Department.

*Upon notification of a fire alarm, Security Officers assigned to patrol will:*

1. ONE officer will meet the Fire Department at the designated entrance.
  - a. Advise the Fire Department of any information regarding the cause of the alarm or details of the fire and relay any concerns regarding the zone affected.
2. ALL OTHER officers will immediately report to the area in distress and report to the other security personnel the condition of the site.
  - a. One officer will check the zone indicated by the annunciation panel as being in distress, if it is safe to do so. Report findings to the security office and indicate if there is a need for other services to be called (ie. Ambulance, Electrical, Mechanical). The officer will also report if there is an actual fire, smoke present or if the cause of the fire is known.
  - b. Ensure fire access routes are unobstructed (Remove any bollards and open gates).
  - c. One officer will control crowds and ensure that all persons are kept away from the building and the roadway is clear for the Fire Department. Ensure no one re-enters the building until the Fire Department has given the all clear.
3. Security officers will follow the instructions of the Fire Department personnel.
4. Once authorized by the Fire Department, Security Officers will silence the alarms, reset the activated device, return elevators to normal service, reset maglocks (if applicable) and provide the "All Clear" announcement to those who have evacuated the building.
5. Security will facilitate the Fire Department's investigation (if a fire occurred).
6. An incident report must be generated for ALL fire alarms, without exception.
7. Forward a copy of the report to the Office of Human Resources – Health & Safety.

*Security Officers shall refer to a more detailed description of these procedures in the "Security Services Department Policy & Procedure Manual".*

## 5.5 Fire Wardens

As with all major buildings on campus the Maintenance Building has designated Fire Wardens. Fire Wardens are individuals who volunteer or who are assigned to perform certain functions during fire emergency situations. Wardens can be identified during fire evacuations by their reflective vests.

Fire Wardens will direct the evacuation of specific areas (zones) of their building during an emergency and assist with building security. Fire Wardens should be familiar with all potential exit routes, the fire protection measures and emergency procedures in the zone they are responsible for. Wardens will assist in identifying personnel in their zone who may require assistance to evacuate, and ensure that plans are in place to ensure their safety.

Keep the reflective vest in an easily accessible location and ensure that an alternate Warden is informed of your absence.



***On notification of a Fire Emergency:***

1. Identify yourself as a Fire Warden. Wear your vest.
2. Evacuate the area nearest the fire first, if known. Direct people to the nearest exit. If the exit is impassable, direct people to an alternate route.
3. Make a sweep of your assigned zone, checking all open rooms, including washrooms and storage rooms, to ensure everyone has left.
4. Close any open windows.
5. Close, but do not lock, doors in your zone
6. Note the name and/or location of any individuals who remain in the building to report to the Fire Department or Security Services staff.
7. Ensure persons who require assistance to evacuate or those who cannot evacuate are assisted down the exit stairs or to the nearest exit stair landing. See section 5.8 for more detail.
8. Once the zone has been evacuated, leave the building using the closest exit stair.
9. Once outside the building, direct evacuees to the designated meeting location (walkway nearest Dan's Diner) or in cases of inclement weather, to an adjacent building and ensure Security Services is notified of your alternate location.
10. Immediately notify the Fire Department personnel or Security Services staff of the location and/or name of any individuals who remained in the building and disclose any other information regarding the location or nature of the fire.
11. If Fire Department personnel are not on the scene, confirm with Security Services that the Fire Department has been notified.
12. Assist the Fire Department personnel and Security Services staff, as requested.
13. Stay at the front of your group and keep people well back from the building. Stay visible and do not mingle with the crowd.
14. Obtain information from evacuees in your area. If anyone has information for the Fire Department or Security Services staff, ensure that it is reported.
15. The end of the Fire Alarm signal DOES NOT indicate that it is safe to re-enter the building. Ensure that no one re-enters the building until the all clear signal has been given by Security Services staff or Fire Department personnel.
16. After the fire emergency or fire drill is over, report any problems encountered during the evacuation to the Office of Human Resources- Health & Safety at 807-343-8010 Ext 8806.

**5.6 Evacuation Meeting Locations**

The designated evacuation meeting location for the Maintenance Building is on the walkway nearest Dan's Diner, well away from any road or parking lot. All persons evacuating the Maintenance Building must immediately report to the designated location and report to their zone's Fire Warden.

## 5.7 Persons Requiring Assistance to Evacuate

Persons requiring assistance to evacuate are encouraged to identify themselves to their Supervisor upon commencing employment at Lakehead University. It is the responsibility of Lakehead University to ensure that persons requiring assistance to evacuate are provided with means to leave the premises safely. Administration should be aware if there are individuals in their department who require assistance in the event of a fire emergency.

Any special arrangements made for persons requiring assistance to evacuate should be reviewed in advance with the Supervisor and the Fire Warden Responsible for the zone(s).

For those persons who are unable to evacuate, Fire Wardens and Supervisors must know:

- Where a person can be safely left in the eventuality that evacuation from the building is not possible.
- The procedure for reporting the location of persons left in the building to the Fire Department or Security Services.

Immediately inside the exit stair is the best location to await rescue, in the event that evacuation is not possible. Exit stairs are enclosed fire protected stairwells with fire resistant walls and doors designed to protect from smoke and fire. **Be familiar with the evacuation plan.**

### i. Emergency Procedures- Persons Requiring Assistance to Evacuate

On notification of a Fire, a Supervisor or Fire Warden who is aware that a person requiring assistance to evacuate is present in their workplace or residence will:

1. Ensure that the individual has been notified.
2. Carry out your regular duties: instruct all occupants to evacuate via the nearest exit and conduct a systematic check of the immediate area.
3. If alternate plans have not been made for evacuation, the subsequent procedure will be followed:
  - a. The Supervisor or Fire Warden will help any person requiring assistance in reaching a safe location outside the building.

***Those who have begun providing support must ensure the person requiring assistance has been safely evacuated before resuming their regular duties***

## 5.8 All Occupants

All occupants must be familiar with Lakehead University Emergency Procedures to be followed upon discovery of smoke or fire and upon hearing the fire alarm. Occupants will also participate in all fire drills and other fire safety training prescribed by Lakehead University.

If someone detects a fire, they are to activate the nearest pull station, call out to persons around you and

proceed to the closest safe phone to call (807) 343-8911 and provide Security Services with all particulars about the emergency.

Manual fire alarm stations are located throughout Maintenance Building. It is the responsibility of each occupant to be familiar with the location of alarm pull stations and fire exits throughout the building. Discharging, tampering with or operating any fire prevention (e.g. sprinkler) or detection equipment for any purpose other than in the case of a fire is strictly prohibited.

***It is an offence under the Criminal Code of Canada to cause a false alarm. This is an indictable offence that is liable to an imprisonment term.***

*Criminal Code of Canada Section 437: "Other Interference with Property"*

Notify your Supervisor or Fire Warden if you have a condition that you feel may inhibit your ability to evacuate the building safely without assistance. If you are assigned to assist someone to evacuate, ensure that you know the procedures to be carried out. Make note and report any fire hazards or unsafe conditions observed in the building. Refer to Chapter 7 for more details.

#### **i. Emergency Procedures- All Occupants**

Each room is equipped with Fire safety notices attached to the back of the door. See Appendix A for an example. These notices depict the designate meeting location and a building plan with the occupants location, the nearest fire exit and an alternate exit location. These notices also include the following written emergency procedures.

##### ***If you discover a fire, detect smoke or hear a fire alarm***

1. Close windows and doors.
2. Warn people to evacuate.
3. Proceed to the nearest exit/activate alarm at nearest pull station, if safe to do so.
4. From a safe location call Security at 8911 or 807-343-8911 if calling from an outside line.
5. Quickly move away from the building to your emergency gathering location. **LOCATION: well away from entrance door.**
6. Do not re-enter building until instructed to do so.

##### ***Other information about fire safety***

1. If confronted by smoke choose and alternate route, if available. Otherwise drop to your knees and crawl.
2. Never open a closed door without checking first for heat. If the door is hot, open it slowly standing to one side. Be prepared to shut it quickly if fire is present.
3. Failure to leave the building during a fire alarm presents a danger to both yourself and others.
4. Tampering with fire equipment (smoke, heat detectors, extinguishers, fire hoses) including this notice is a serious offence and will be dealt with severely.

## 5.9 Special Evacuation Procedures

### i. Contractors & Cleaning Staff

1. As long as it is safe to do so, turn off any equipment you are using and ensure that it is not left in such a way as to block exits.
2. Evacuate the building using the nearest exit.
3. Follow the directions of Fire Wardens, Security staff and the Fire Department.
4. Ensure that building staff are aware that you have evacuated.
5. Move away from the building and congregate in the designated meeting location (On the walkway nearest Dan's Diner).
6. Do not return to the building until authorized to do so by the Fire Department or Security.

## Chapter 6: Fire Extinguishment, Control or Confinement

In the event of a small fire, first ensure that the Fire Alarm System has been activated and dial extension 8911(807-343-8911) to ensure that the Security Office have been notified prior to any attempt to extinguish a fire. Security officers will report to Emergency dispatch (911) any specifics details concerning the location and nature of the fire.

### ***Fighting a fire is always a voluntary act***

Only those persons who are trained and familiar with extinguisher operation may attempt to fight a fire. In the event a small fire cannot be extinguished with the use of a portable fire extinguisher or the smoke presents a hazard for the operator, the door to the area should be closed to confine and contain the fire. Leave the area.

### 6.1 Suggested Operation of Portable Fire Extinguishers

Remember the acronym **P.A.S.S.**

**P**ull the safety pin

**A**im the nozzle

**S**queeze the trigger handle

**S**weep from side to side (watch for fire restarting)

Never re-hang extinguishers after use. Contact Security Services (807-343-8010 Ext 8569) to ensure that they are properly recharged by qualified personnel. Security services will also ensure that a replacement extinguisher is provided.

Keep extinguishers in a visible area without obstructions around them.

## 6.2 Classification of Fires

Fires are classified according to the fuel type involved.

Class “A” fires are those fuelled by combustible solids, such as wood, paper, excelsior, rags and rubbish.

Class “B” fires occur in the vapour-air mixture over the surface of flammable liquids, such as gasoline, oil, grease, paints and thinners.

Class “C” fires occur in or near live electrical equipment.

Class “D” fires occur with pyrophoric (combustible) metals such as magnesium, titanium, lithium, sodium, potassium, etc.

Class “K” fires involve cooking oils or fats, such as those found in a deep fryer.

## 6.3 Classification of Fire Extinguishers

Portable fire extinguishers are classified according to their ability to handle specific classes of fires.

Labels on the extinguisher indicate the class or classes of fire that they can be expected to extinguish.



Extinguishers suitable for class “A” fires are identified by a triangle containing the letter “A”



Extinguishers suitable for class “B” fires are identified by a square containing the letter “B”



Extinguishers suitable for class “C” fires are identified by a circle containing the letter “C”



Extinguishers suitable for class “D” fires are identified by a star containing the letter “D”



Extinguishers suitable for class “K” fires are identified by a hexagon containing the letter “K”. Class K extinguishers must ONLY be used on cooking fires (ie. The deep fryer)

In the Maintenance Building class “A”, “BC” and “ABC” extinguishers are provided.

## Chapter 7: Fire Hazards and Fire Prevention

If you notice a potential fire hazard report it immediately to your Supervisor or Health & Safety (807-343-8010 Ext 8806). Every precaution shall be taken to minimize accidents and prevent injuries.

### ***Fire Prevention is everyone's responsibility***

#### 7.1 Housekeeping

- Maintain safe escape routes by keeping exits, hallways, windows, aisles and corridors free from obstructions and combustible materials.
  - Egress (exit) routes should not be impeded by personal belongings.
- Ensure both sides of a door are kept free and clear of debris. Be particularly aware if you share a door with another occupant.
- Regularly clear out combustible materials, such as waste paper and cardboard boxes. Review dead files and dispose of waste material.
- Emergency exits are marked by the lighted "EXIT" signs. Report any burnt out exit lights to the Physical Plant (807-343-8010 Ext 8273) or to Security (807-343-8010 Ext 8569) after hours.

#### 7.2 Fire Doors

- Keep fire doors closed. If you find a fire door propped open, discard the wedge so it cannot be reused.
- Some fire doors are held open using electromagnetic devices. All hold open devices in the building will be released on activation of the fire alarm system. If you notice any problems with the electromagnetic hold open devices contact Physical Plant (807-343-8010 Ext 8273) immediately or Security Services (807-343-8010 Ext 8569) after hours.

#### 7.3 General Hazards

- Do not use open candles or open flames.
- Smoking is prohibited on university property, except in designated smoking area.
- Place posters or decorations on approved bulletin boards only. Never leave anything flammable in the corridors, stairwell or any means of egress.
- Do not hang decorating material from ceilings and keep streamers and banners to a minimum.
- Avoid placing combustible materials directly in contact with an electrical outlet.
- Ensure proper disposal of oily rags.

#### 7.5 Extension Cords

- Extension cords are designed for temporary use only. Never should they be used as permanent wiring.
- Assure that extension cords used are of the proper rating to accept the required electrical load.

- Protect extension cords from damage.
- Extension cords, when in use, should not be placed in a position to create a hazard. They should not cross any traffic area. Do not run them under mats or carpets.
- Power bars are acceptable for long term use, provided they are used safely. Review safe use of power bars on Lakehead University's Health & Safety website.  
<http://hr.lakeheadu.ca/wp/?pg=140>

## 7.6 Electrical Hazards

- All electrical equipment, electrical lights used for decorations and extension cords must be CSA or ULC approved. Accepted certification marks can be review on Lakehead University's Health & Safety website. <http://hr.lakeheadu.ca/wp/?pg=140>
- Electrical wiring that is defective, frayed or cracked must be replaced. Discontinue use and contact Physical Plant (807-343-8010 Ext 8273) immediately upon discovery of damaged electrical wiring.
- Outlets and electrical devices that show evidence of electrical arching will mean discontinuation of use until a qualified electrician from Physical Plant can assess the problem.
- If a circuit breaker consistently "trips", discontinue using the device that is causing the circuit to trip contact a licensed electrician from Physical Plant to assess the electrical system.
- **All electrical work must be done by a licensed electrician with Physical Plant (807-343-8010 Ext 8273).**
- Circuit breaker panels shall not be covered or obstructed by stored material. 1 meter clearance is required.
- Electrical equipment located where flammable or combustible liquids are present shall conform to the Electrical Safety Code made under the Electricity Act, 1998.

***In Ontario it is ILLEGAL to connect unapproved equipment to an electrical supply***

## 7.7 Space Heaters and Appliances

- Electrical or other cooking appliances, including but not limited to toasters, toaster ovens, hot plates, grills, microwaves, sandwich makers, etc. are permitted only in areas with approved kitchen facilities.
- Space heaters are to be used with care, at least 1 meter away from combustible materials and must NEVER be left unattended.
- Seasonal trees must be flame retardant and ULC certified.
- Turn off or unplug any appliances or decorative lights before you leave.
- **All electrical appliances with heating elements (kettles, coffee makers, etc.) must have an automatic shut-off function.**

## 7.8 Storage Areas

- Storage areas must be kept clean, organized and free of debris.
- Stacked material must be arranged so that the piles are stable and not at risk of tipping over.
- Light fixtures should be protected by wire guard or cage to prevent damage of light bulbs.
- Material should not be stored directly touching an electrical outlet.
- Electrical equipment and devices should not be operated, or connected to an electrical source in storage rooms.
- Doors to storage rooms shall be kept closed at all times.
- Service rooms should not be used for storage.
- Flammable and combustible liquids, hazardous, reactive, or unstable chemicals shall not be stored in rooms used for ordinary combustible materials (ie. Paper or cardboard boxes).
- Combustible material will be stored only in approved areas (see Section 7.8)

## 7.9 Hot Works

Hot works, such as welding, will be conducted by approved staff only following approved procedures. Contact Physical Plant (807-343-8010 Ext 8273) for more information or to request a permit for hot work.

## 7.10 Special Events

### i. Portable Cooking Devices

Any portable cooking devices will comply with the Ontario Fire Code and meet the standards set by the Fire Department. Cooking must not release any grease laden vapours.

Any portable cooking device must meet the following requirements:

1. Be annually certified by a TSSA (Technical Standards & Safety Authority) technician.
2. Have an operable, up-to-date, portable fire extinguisher with a minimum rating of 2A-10Bc with the appliance and readily available for use at all times.

# Chapter 8: Fire Protection Measures

## 8.1 Fire Alarms & Pull Stations

The Maintenance Building is equipped with fire alarm pull stations. Look for pull stations as you approach an exterior exit or a stairwell leading outside. The pull station will generally be located in the corridor adjacent to the exterior door leading to the vestibule or the stairwell, or located inside the vestibule itself. Refer to building drawings in Chapter 4.



## 8.2 Fire Extinguishers

The Maintenance Building is equipped with fire extinguishers. The extinguishers are either wall mounted, or located in the fire hose cabinets in the hallways. Extinguishers are checked monthly. If you discharge an extinguisher, or find one that has been discharged, contact Security Services (807-343-8010 Ext 8569) and request a replacement.

## 8.3 Emergency Exits

Emergency Exits are marked by lighted signs with the word "EXIT". Exit signs are located high on the wall above ground level doors, or at stairwells leading to ground level exit doors. Lighted directional signage is also provided, where required. An outlined arrow appearing below the word "EXIT" indicates the direction to the closest emergency exit. Following these signs will provide an exit route during an emergency.

## 8.4 Emergency Lighting

The Maintenance Building is equipped with emergency lighting. Emergency lighting provides illumination to exits, corridors and principle exit routes in the event of the loss of primary power.

## 8.5 Fire Routes

Fire routes are areas of access for responding Fire Professionals. Obey the signs posted and park only in designated parking spots.

# Chapter 9: Alternative Measures for Fire Safety

In the event of any shut down of fire protection equipment systems (either entirely or partially), alternate measures for fire safety must be taken. For any shut down of fire protection equipment in excess of 24 hours, the Fire Department shall be notified in writing.

Occupants will be notified of the areas affected by the shutdown and instructions for alternate fire safety measures or actions will be posted as to alternative provisions or actions to be taken in case of emergency. These provisions and actions must be acceptable to the Chief Fire Official.

## 9.1 Fire Alarm Systems

- It is the responsibility of Physical Plant to notify Security Services when any or all of a fire alarm system is out of service.
- Security will notify the Fire Department with a description of the problem and the anticipated length of time needed to correct it.
- Security will notify the monitoring company that a portion of the fire alarm system is offline.

- The Office of Human Resources – Health & Safety will notify the building supervisory staff that the fire alarm system is temporarily shut down.
- While the fire alarm is out of service, Security Services will either lock out the building or initiate a fire watch. During a Fire Watch a walkthrough of the affected area will be completed regularly by Security Services until such a time that the fire alarm service is restored.
- Notices will be posted on all exits and the main entrance by Security, stating the problem and when it is expected to be corrected.
- Security will notify the Fire Department, the monitoring company and the building occupants when the fire alarm system is back in operation.

## **9.2 Water System Shutdown**

- It is the responsibility of Physical Plant to notify Security Services when all or part of the water system is out-of-service.
- Security Services will notify the Fire Department that all or part of the water system on campus is out-of-service, as well as the location of any fire hydrants taken out-of-service.
- Physical Plant will bag and lock out any fire hydrants that have been taken out of service.

## **9.3 Emergency Power Shutdown**

- It is the responsibility of Physical Plant to notify Security Services when all or part of the emergency power system is out-of-service.
- Security Services will notify the Office of Media Relations to send out a general notice to the University Community and will notify the Fire Department that all or part of the emergency power system is out-of-service.

## **9.4 Fire Watch**

A fire watch is implemented to ensure the fire safety of a building or area of a building and to minimize the impact of malfunctioning equipment. Security officers dedicated to a fire watch are responsible for patrolling the affected area(s) at least once every hour.

A fire watch is required when:

1. Failure of the fire alarm system occurs.
2. Failure of fire safety equipment occurs.
3. Any act which causes an increased risk to persons or property, such as hot works.
4. The Fire Department requests a fire watch be initiated.

## **9.5 Exits**

Exits shall not be obstructed. In the event that planned construction or maintenance will cause an exit to become unusable, the following emergency procedures will be employed:

- Ensure the planned construction or maintenance is in compliance with municipal building permits.
- Ensure alternative measures are developed to compensate for the blocked exits.
- Post temporary exit signs to clearly identify the alternate exits.
- If necessary, create emergency evacuation procedures.

***Physical Plant will alert the building occupants to obstructed exits via a communication bulletin.***

## 9.6 Fire Extinguishers

It is the responsibility of Security Services to provide a temporary fire extinguisher (of equal type and rating) when a fire extinguisher has been removed for servicing.

## Chapter 10: Fire Drills

Fire drills are regularly conducted to ensure that all building occupants are familiar with fire evacuation procedures. The emergency system sounds and the building is evacuated as though a real fire has occurred. The time it takes to evacuate is measured to ensure that it occurs within a reasonable length of time, and problems with the emergency system or evacuation procedures are identified to be remedied.

The Maintenance Building will have scheduled fire drills once a year and fire drill records are required to be retained for a period of one year. Every attempt will be made to schedule fire drills so that they do not conflict with tests. Drills will not occur during scheduled examination periods.

***All occupants of a building must evacuate immediately during a fire drill***

Building occupants should report any observations made during the evacuation to a Fire Warden. Fire Wardens should report any problems encountered during the evacuation drill to Health & Safety by calling 807-343-8010 Ext 8806.

## Chapter 11: Maintenance Schedule as Required by the Ontario Fire Code

The following is a list of the portions of the Fire Code that require checks, inspections, and/or tests to be conducted of the facilities. Permanent records of all tests and corrective measures taken are required to be retained for a period of two years after they are made. If the time interval between tests exceeds two years, then the records shall be retained for the period of the test interval plus one year.

Records are to be made available upon the request of the Chief Fire Official or Fire Prevention Officers.

This list has been prepared for convenience only. For accurate reference, the fire code and referenced standards should be consulted.

Definitions of key terms include:

**Check:** means visual observation to ensure the device or system is in place and is not obviously damaged or obstructed.

**Test:** means the operation of a device or system to ensure that it will perform in accordance with its intended operation or function.

**Inspect:** means physical examination to determine that the device or system will apparently perform in accordance with its intended function.

### 11.1 Daily Tasks

Responsibility	Task	Description	Fire Code Reference
Security	Inspect	Fire alarm system for status of primary and remote trouble indicators and primary power "on" indicator.	6.3.2.2. CAN/ULC-S536

### 11.2 Monthly Tasks

Responsibility	Task	Description	Fire Code Reference
Maintenance	Inspect	Doors in fire separations.	2.2.3.4.
Contractor	Check	Pilot lights on emergency lighting unit equipment for operation.	2.7.3.3.(1)
Contractor	Inspect	Emergency lighting unit equipment.	2.7.3.3.(2)
Contractor	Test	Emergency lighting unit equipment for function upon failure of the primary power supply.	2.7.3.3.(3)(a)
Contractor	Inspect and Test	Batteries that provide emergency power for lights referred to in 2.7.3.3. (5)	2.7.3.3. (6)
Security	Inspect	Portable fire extinguishers and record electronically or on the attached tag.	6.2.7.2.
Security	Inspect	Hose stations to ensure that the hose is in the proper position and that all of the equipment is in place and operable.	6.4.2.1.
Contractor	Inspect and Test	Fire alarm system for operability: initiating device, alert/alarm/trouble signals, annunciator, battery, voice paging and emergency telephones.	6.3.2.2. CAN/ULC-S536

### 11.4 Annual Tasks

Responsibility	Task	Description	Fire Code Reference
Maintenance	Operate	Disconnect switch for mechanical air-condition and ventilation systems.	2.6.1.8.
Contractor	Test	Emergency lighting unit equipment for design duration.	2.7.3.3.(3)(b)
Contractor	Test and Inspect	Emergency lighting equipment charging conditions for voltage, current and recovery period to ensure manufacturer's specifications are met.	2.7.3.3.(4)
Health & Safety	Review	Fire safety plan as often as necessary but at intervals not greater than 12 months.	2.8.2.1.(4)
Contractor	Maintain	Fire extinguishers (mechanical parts, extinguishing agent, and expelling means will be thoroughly examined)	6.2.7.1. NFPA 10
Contractor	Inspect and Test	Fire alarm system operability and all components and devices	6.3.2.2. CAN/ULC-S536
Maintenance	Inspect	Private hydrants annually and after each use.	6.6.5.1. - 6.6.5.5.
Maintenance	Inspect and check	Private hydrants water flow.	6.6.5.6.
Contractor	Inspect	Fire department standpipe and hose system connections (plugs or caps removed) for wear, rust or obstruction.	6.4.1.3.(2)
Contractor	Inspect	Hose valves to ensure that they are tight so that there is no water leakage into the hose.	6.4.2.4.
Contractor	Inspect / Re-rack	Standpipe hose and replace worn hose or gaskets.	6.4.2.5.(1)
Security and Health & Safety	Conduct	Annual Fire drill (all buildings).	2.8.3.2.(1)

### 11.5 Tasks Every Five (5) Years

Responsibility	Task	Description	Fire Code Reference
Contractor	Test	H2O, CO2 and dry chemical (stainless steel shell) extinguishers, hydrostatically tested.	6.2.7.1. NFPA 10

### 11.6 Tasks Every Six (6) Years

Responsibility	Task	Description	Fire Code Reference
Contractor	Maintain	Stored-pressure fire extinguishers that require a 12-year hydrostatic test by emptying and	6.2.7.1. NFPA 10

		subjecting to the applicable maintenance procedures.	
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### 11.7 Tasks Every Twelve (12) Years

Responsibility	Task	Description	Fire Code Reference
Contractor	Test	Extinguishers with milled steel shells hydrostatically tested.	6.2.7.1. NFPA 10

### 11.8 Tasks, As Required

Responsibility	Task	Description	Fire Code Reference
Residence and Conference Services & Security	Check	Doors in fire separations in occupied buildings as frequently as necessary to ensure that they remain closed.	2.2.3.5.(1)
Maintenance	Inspect	Fire dampers, as required.	2.2.3.7.
Security	Maintain	Access for firefighting free of obstructions.	2.5.1.2.(1)
Security	Maintain	Fire access routes to be immediately ready for fire department vehicles.	2.5.1.3.
Health & Safety	Review	Fire safety plan as often as necessary but at intervals not greater than 12 months.	2.8.2.1.(4)
Contractor	Test	Standpipe systems that have been modified extended or are being restored to service after a period of disuse exceeding one (1) year, hydrostatically and for flow and pressure.	6.4.3.1.(1)
Maintenance	Maintain	Fire department sprinkler and standpipe connections free of obstructions.	2.5.1.2.(3)
Contractor	Inspect	After any alterations or repairs, an inspection shall be made to ensure valves are returned to the fully open position and are sealed, locked or electrically supervised.	6.6.1.2.(3)
Security	Maintain	When an emergency power system or any part thereof is shut down, the supervisory staff shall be notified.	6.7.1.1.(3)
Security	Maintain	Required exit signs in a clean and legible condition and clearly visible.	2.7.3.1.
Security	Illuminate	Exit signs while the building is occupied.	2.7.3.2.

**Appendix A: Fire Drill Report****Fire Drill Report**

Building:	
Date:	Time:
In attendance:	
Comments and/or Deficiencies Noted:	

Signature: \_\_\_\_\_