



# **MARITIME METAL INC.**

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60 SIMMONDS DRIVE, DARTMOUTH (N.S.) B3B 1P6  
TELEPHONE : (902) 468-9664 • FAX : (902) 468-9658

July 14, 2004

Helen MacPhail  
Nova Scotia Department of Environment and Labour  
PO Box 697  
Halifax, NS B3J 2T8

Dear Ms. MacPhail

**Re: Environmental Assessment – Maritime Metal Inc. – 60 Simmons Drive,  
Burnside Industrial Park, Dartmouth, Nova Scotia**

We have been informed by the Nova Scotia Department of the Environment & Labour (“NSEL”) that Maritime Metal Inc. (“Maritime Metal”) requires an operating permit under the *Environment Act* (Nova Scotia) in relation to its used battery storage facility to be located at 60 Simmons Drive, Burnside Industrial Park, Dartmouth, Nova Scotia (the “Undertaking”).

As part of the process to obtain an operating permit, we are informed that an environmental assessment of the Undertaking is required. Please accept this letter as Maritime Metal’s registration of the Undertaking.

## **MINIMUM INFORMATION**

The following is the information required to be submitted to NSEL pursuant to Section 9(1) of the *Environmental Assessment Regulations*:

(a) Name of Undertaking:

Maritime Metal Inc. Battery Storage Facility

(b) Location of the Undertaking:

60 Simmons Drive, Burnside Industrial Park, Dartmouth, Nova Scotia, B3B 1P6

(c) Identification of Proponent:

Maritime Metal Inc.  
2185 Montee Masson  
Laval, PQ H7E 4P2

President: Jean-Guy Hamelin

Contacts:

(i) Daniel Rheault  
Director, Purchasing  
PO Box 3036  
Saint John, NB E2M 4X7  
Phone: 1-800-465-9818  
Fax: (450) 661-0803

(ii) Yvon Pinet  
Team Leader  
60 Simmons Drive  
Burnside Industrial Park  
Dartmouth, NS B3B 1P6  
Phone: (902) 468-9664  
Fax: (902) 468-9658

(d) Nature of Undertaking:

Used battery storage facility.

(e) Purpose and Need for the Undertaking:

Maritime Metal's primary business in Nova Scotia is the collection and transport of ferrous and non-ferrous materials to its recycling facilities in New Brunswick and Quebec. In an effort to better serve its customers, Maritime Metals has decided to offer a collection service to facilitate the proper disposal of used automotive batteries. Maritime Metal requires a facility to temporarily store the batteries pending shipment to recovery facilities in New Brunswick and Quebec.

(f) Purposed Construction and Operation Schedules:

Maritime Metal expects that the construction of the concrete pad on which the metal storage container in which the batteries are to be stored will take approximately 2 weeks from the date of NSEL approval of the Undertaking.

The hours of operation of the Undertaking will be Monday to Friday, 7 am to 5 pm and Saturday, 7 am to 12 pm.

(g) Description of the Undertaking:

Maritime Metal proposes to receive used batteries at the facility for temporary storage pending transport to recovery facilities in New Brunswick and Quebec. All batteries received at the facility will be placed on wooden pallets (approximately 50 units per pallet) and stretch-wrapped with plastic. The pallets will be stored in a fully enclosed metal transport container. The container is to be situated on a concrete pad at the 60 Simmons Drive site. The total accumulation of pallets at the site will never exceed 32 pallets. The pallets will be properly labelled in accordance with NSEL requirements.

(h) List of Approvals:

Maritime Metal will require approval as a Class I undertaking pursuant to Schedule "A" of the *Environmental Assessment Regulations* and approval for a dangerous waste/dangerous goods handling facility pursuant to Section 10 of the *Activities Designation Regulations*.

(i) Sources of Public Funding:

There are no sources of public funding for this Undertaking.

#### **ADDITIONAL INFORMATION**

In addition to the minimum information required pursuant to the *Environmental Assessment Regulations*, we also enclose the following information in relation to the Undertaking:

(a) Surrounding Area:

The battery storage facility is to form part of Maritime Metal's existing business site at 60 Simmons Drive in the Burnside Industrial Park. Maritime Metal's current business activities at the site involve the collection and temporary storage of used ferrous and non-ferrous materials. The facility is not used to salvage automobiles, transportation or industrial equipment. Materials are delivered to Maritime Metal's site, separated by type and then prepared for transport to Maritime Metal's parent company's recycling facilities in Quebec, where the materials are shredded and resold to metal manufacturers throughout the world.

The Burnside Industrial Park is dedicated to commercial and industrial businesses. There are no residential developments in the area. Maritime Metal's business site is located on its own lot. The nearest ecological receptor is the Halifax Harbour which is located approximately three kilometres from the site. There are no streams or wetlands in proximity to the site.

(b) Facility Layout:

A copy of the layout of the land, building and proposed container site is attached to this correspondence as Schedule "A".

(c) Volume of Batteries:

Used batteries only will be stored at the facility. The maximum number of used batteries stored at any one time will not exceed 32 pallets. Each pallet is expected to hold approximately 50 battery units, for a total maximum number of 1600 units to be stored at the facility at any one time.

(d) Handling Procedures and Documentation:

The used batteries received at the facility will be initially stored in the building located on the site. There will be a designated area in the building for receiving and handling the used batteries. The area will be segregated from the other business activities of Maritime Metal in the building. The area is shown on the attached layout (Schedule "A") as "Inside Storage Area". Upon receipt, batteries will be inspected by Maritime Metal for leaks. Provided no leaks are detected, the batteries will be stacked on a pallet until enough units have been received to complete a full pallet (approximately 50 units). The units on the pallet will be neutralized with sodium bicarbonate (as an added precaution against acid leaks) and the entire pallet will be wrapped in plastic to secure the stack and to minimize any leaks.

The pallet is then moved from the building with a forklift into the fully enclosed metal storage container. The container will have a wooden floor and will be situated on a concrete pad. The pad will have a 4" high concrete berm around its entire perimeter to prevent the escape of any substances from the container.

Any batteries that are leaking upon receipt at the facility will be placed in self-contained storage tubs prior to palletizing.

Batteries will be shipped from the facility to New Brunswick and Quebec recovery centres once a stockpile of between 29-32 pallets has been collected. Maritime Metal expects that shipments will occur approximately once per month. When a sufficient number of pallets have accumulated at the facility, arrangements will be made for delivery of a transport trailer to the site. The transport trailer will be temporarily located close to the storage container. A forklift will be used to transfer the palletized batteries from the storage container to the transport trailer.

Only used batteries, shrink-wrapped and on pallets, will be stored in the on-site metal container. Similarly, the transport trailers to be used to ship the batteries to the recovery facilities will only contain palletized batteries.

All handling, storage, and transport of the batteries will be undertaken in compliance with the *Transportation of Dangerous Goods Regulations* and the *Inter-Provincial Movement of Hazardous Waste Regulations (2002)*. A manifest will be issued for each shipment of used batteries from the facility. Records will be maintained on all batteries received and shipped from the facility.

(e) Spill Containment:

Batteries contain a dilute solution of sulfuric acid. The acid reacts with soda ash, which is the commercial name for sodium bicarbonate, a non-hazardous powder, to produce sodium sulphate, a neutral salt. Carbon dioxide and water, which are substances found naturally in the environment, are the other substances produced in this reaction. When an acid leak occurs, the following procedures take place:

- Stop leak or spill at source
- Ventilate the area
- Remove combustible material
- Wear protective clothing and eyewear
- Segregate the spill and neutralize with soda ash or an appropriate acid absorbent
- Test to make sure acid is neutralized with pH paper
- Contain the spill material and manage it as a hazardous waste

These procedures are handled by employees trained in the handling of dangerous goods. In addition, eye protection, gloves and protective clothing are required to be worn at all times when employees are handling the used batteries. Emergency response equipment, including sodium bicarbonate first aid kits, eye wash centres and fire extinguishers, are located in key areas at the facility.

(f) Contingency Plan and Fire Emergency Plan:

Copies of Maritime Metal's contingency plan (acid leaks and spills) and fire emergency plan are attached to this correspondence as Schedules "B" and "C" respectively.

(g) Activities and Staffing:

There will be approximately 6-8 employees and 1 manager during regular business hours located at the facility. Two of these employees will be responsible for the proposed used battery storage operation.

(h) Employee Training:

As part of the new employee orientation process, all employees that are involved in the handling of batteries are given training in WHMIS and Transportation of Dangerous Goods specifically related to the handling of lead acid storage batteries. Materials are provided concerning Material Safety Data Sheets, product labelling, and protective gear for

handling batteries. Materials are also provided concerning shipping paperwork, corrosive goods identification, and safe and secure methods for storing and shipping batteries. Employees are also given on-the-job training for containing and handling spills of battery acid, as outlined in the contingency plan. An example of a WHMIS card issued to employees is included as Schedule "D".

We confirm that Maritime Metal will arrange publication of the Undertaking in the *Daily News* and the *Chronicle Herald* in accordance with the *Environmental Assessment Regulations*.

Please also find enclosed a cheque in the amount of \$5,112.00 representing the fees payable in relation to Maritime Metal's registration.

In accordance with Information Bulletin No. 01-03, please find enclosed an electronic version in Adobe Portable Document Format ("PDF") of this registration, together with 20 hard copies.

Thank you for your consideration of Maritime Metal's registration. Please contact the undersigned if you have any questions regarding the contents of this correspondence or should you require any further information.

Yours truly,

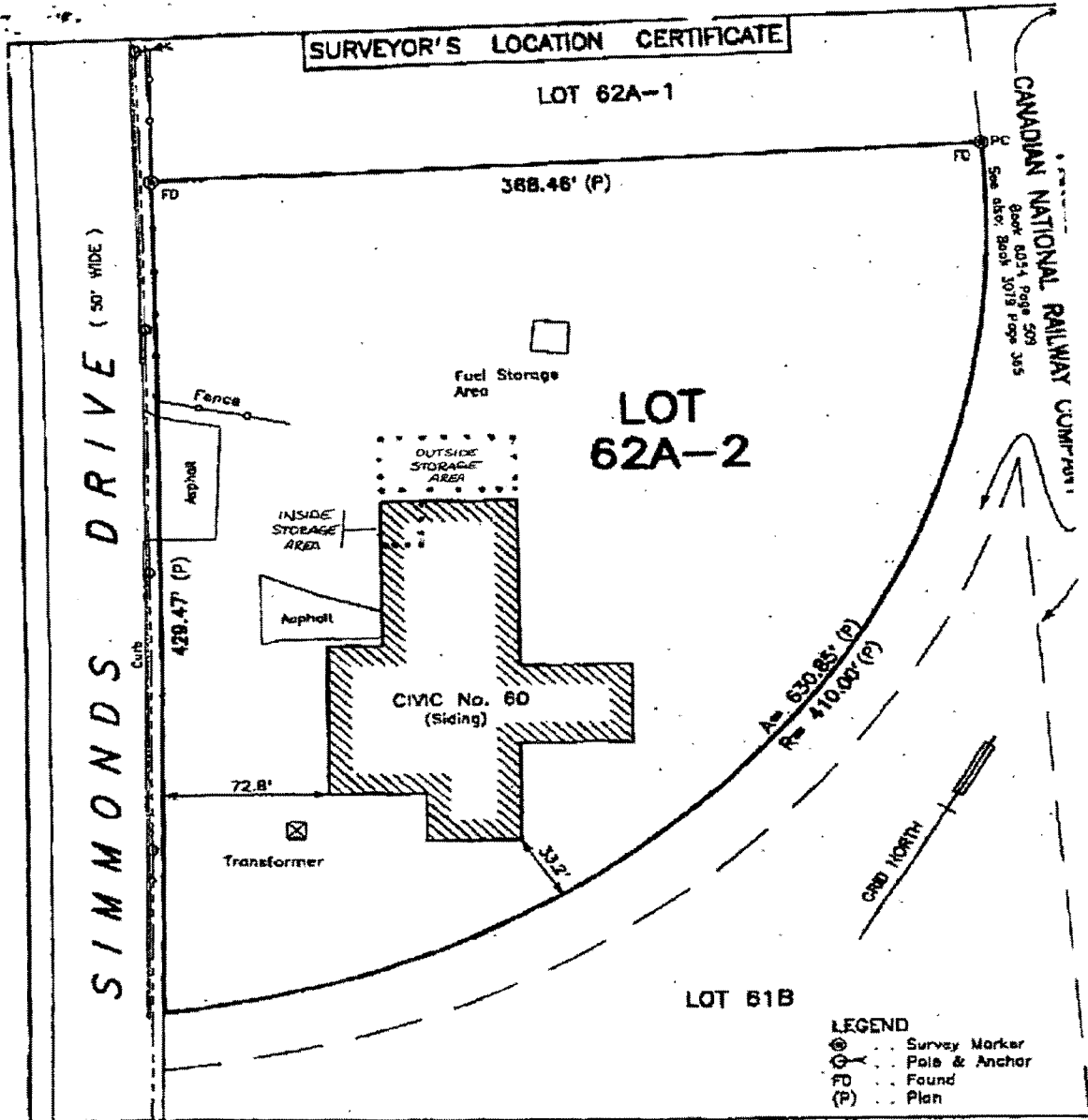
**MARITIME METAL INC.**

Per: 

Name: Daniel Rheault

Position: Director, Purchasing

SCHEDULE "A"  
FACILITY LAYOUT



Certified to: MARITIME METAL INC.  
 Re: CMC NO. 60, SIMMONDS DRIVE, LOT 62A-2,  
 BURNSIDE CITY OF LAKES BUSINESS PARK  
 DARTMOUTH, HALIFAX COUNTY, NOVA SCOTIA



L. ROBERT A. DANIELS

**SCHEDULE "B"**  
**MARITIME METAL INC.**  
**CONTINGENCY PLAN**  
**(ACID LEAKS AND SPILLS)**

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## 1. Introduction

Maritime Metal Inc. ("Maritime Metal") has consistently demonstrated its commitment to the protection of public health and safety, the environment and property throughout its corporate history. This commitment begins at the senior management level and is embraced at all levels of the company .

## 2. Purpose

The purpose of this contingency plan is to recognize the workplace hazards associated with the storage of dangerous goods and hazardous materials (specifically, dilute sulphuric acid found in used automotive batteries), and to show the responses and actions required to contain a spill and to minimize its impact on the environment.

This contingency plan applies to Maritime Metal's business location at 60 Simmons Drive, Dartmouth, Nova Scotia.

Maritime Metal operates a waste metal storage facility at 60 Simmons Drive, Dartmouth, Nova Scotia. Ferrous and non-ferrous materials are temporarily stored at the facility pending shipment to locations outside the Province of Nova Scotia for recycling. Part of Maritime Metal's operations is to include a facility for the temporary storage of used automotive batteries pending shipment to recovery facilities outside Nova Scotia. Waste batteries are dropped off at the facility where they are inspected by Maritime Metal employees for possible acid leaks. Provided no leaks are detected, the batteries are stacked on a pallet, neutralized with sodium bicarbonate (as an added precaution against possible leaks during shipment) and shrink-wrapped in plastic to secure the stack. Once a pallet is complete (approximately 50 units) the pallet is moved from Maritime Metal's main building with a forklift into a metal storage container located just outside the main facility. Once a stockpile of between 29-32 pallets have been collected, arrangements are made by Maritime Metal for shipment of the batteries to recycling facilities located outside of the Province of Nova Scotia. Any batteries which are suspected of leaking are neutralized with sodium bicarbonate and placed in a self-contained storage tub prior to palletization.

### a) **Hazard Assessment**

The primary type of waste dangerous goods located on the facility is waste battery acid. Batteries contain a dilute solution of sulphuric acid. The maximum number of batteries to be located within the main building of Maritime Metal's facility is 50. The maximum number of batteries to be stored on-site at any time (including those stored in the metal storage container located outside of the main storage facility) is 1600 units.

Potential adverse effects of an acid spill are acid burns to and inhalation by Maritime Metal employees. The risk to the environment from an acid spill is minimum as the facility is not located near any wetlands or water courses and there are no drains in the building or on the site which lead into municipal storm sewers (the closest storm sewer drain is located on Simmons Drive, more than 100 feet from the proposed battery storage areas).

**b) Resources and Roles/ Responsibilities**

The following equipment will, at all times, be located at the Maritime Metal facility to respond to emergencies:

- 40 litres of sodium bicarbonate and water
- Shovel, broom and pail
- Eyewash centres
- Handwash centres
- Safety glasses
- Rubber gloves and apron
- Dry chemical fire extinguisher
- pH paper

Maritime Metal expects there to be up to 8 employees and 1 manager on site during regular business hours. Maritime Metal employees are trained on the Workplace Hazardous Materials Information System ("WHMIS"). Maritime Metal ensures products are properly labelled and identified in accordance with WHMIS standards; that Material Safety Data Sheets ("MSDS") are available for hazardous materials on site; and that its employees are properly educated and trained in regards to potential hazards that exist with the substances they are handling.

The Team Leader is in charge of the countermeasures phase of any clean-up. This person is responsible for performing or ensuring the performance of the following:

- Decisions on the severity of the spill, clean-up measures and need for outside assistance.
- Resources to clean up the spill and source additional materials if required.
- People and resources used in the clean-up operation.
- Information exchange on the spill and clean-up.
- Preserve sample of contaminated materials, if any occur.
- Prepare report on spill and clean-up.
- Contact authorities (if Manager unavailable).
- Be responsible for any public relation activities required in relation to the spill.

### 3. Implementation and Operation

#### a) **Notification**

All spills must be reported in accordance with the following:

- Responsibility for reporting spill: All employees
- Responsibility for spill report: Team Leader
- Responsibility to contact authorities: Manager or Team Leader  
(if Manager not available)

The Manager or Team Leader (if the Manager is not available) shall be responsible for reporting spills to the following:

- Environment Canada: (902) 426-6200
- Coast Guard: (902) 426-6030
- Local Police or RCMP/  
Medical Help/Ambulance: 911
- CANUTEC – Canadian  
Transport Emergency Centre: (613) 966-6666 (collect)/Cellular -  
\*666
- Maritime Metal –  
Dartmouth Office: 468-9664
- Maritime Metal –  
After-Hour Employee Contact: Yvon Pinet, 222-0520

Emergency numbers are posted throughout the facility, currently in the form attached as Exhibit 1 to this contingency plan.

#### b) **Response Procedures**

Acid spills are to be neutralized by pouring sodium bicarbonate on the spill and disposing of the residue. PH paper (litmus paper) is to be used to confirm the acid has been neutralized. The resulting material should have a pH level close to 7. When cleaning up the spill, gloves, eye protection and protective clothing must be worn. The building has a concrete floor with capped drains. The areas outside the building are paved with a concrete loading dock to prevent soil contamination. The storage container for the batteries has metal walls and a wooden floor to contain spills. The concrete pad on which the container is situate has a 4" concrete berm around its perimeter to prevent acid escapes.

The following is a step-by-step summary of Maritime Metal's Emergency Plan Procedure:

- notify the Team Leader and Manager
- ventilate enclosed areas
- tend to any medical emergencies
- notify authorities as appropriate
- ensure the site is physically safe, with no moving or non-chemical hazards and isolate the area
- assemble all required equipment for the cleanup and isolate the batteries that are leaking to prevent further leakage
- contain the spill so it does not spread or leave the building
- remove all batteries from the spill area
- neutralize the acid with sodium bicarbonate
- test to ensure the acid is neutralized
- dispose of the residue

#### 4. **Rehabilitation**

Neutralize all acid and sweep up the residue. The concrete and pavement of the building floor, container floor and the surrounding area, if necessary may be swept and washed.

#### 5. **Disposal**

Neutralized acid, as a sodium sulphate salt, may be disposed as a non-hazardous material.

#### 6. **Administrative**

Maritime Metal shall ensure that all of its employees handling dangerous goods receive sufficient training to ensure their safety and the safety of the surrounding environment when conducting operations from the Simmons Drive facility. This training shall be ongoing and shall be mandatory for Maritime Metal employees, both new and current employees.

This contingency plan and employee training will be updated where necessary to comply with changes in company policy, industrial emergency planning standards, industrial codes of practice and applicable legislation. The plan will also be reviewed following any emergencies at the site to review the effectiveness of the plan and determine what, if any, changes are required to ensure the plan is suitable to emergency situations.

# EMERGENCY

**POLICE  
FIRE  
MEDICAL  
POISON**



**911**

**DARTMOUTH PD/FD 490-7300**

**N.S. AMBULANCE 832-7040**

**POLICE (general inquiries) 490-5016**

**ENVIRONMENT  
CANADA 426-6200**

**CANADIAN COAST  
GUARD 426-6030**

**POISON INFO 1-800-565-8161**

**PATIENT TRANSFER 1-800-346-9999**  
(non-emergency)

**POWER OUTAGE 1-877-428-6004**

**SCHEDULE "C"**

**MARITIME METAL INC.**

**FIRE EMERGENCY PLAN**

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## 1. Purpose

To minimize loss and injury to life and property as a result of fire. Any type of fire should be reported to the fire department immediately by calling 911. Should there be a building fire, all building occupants must be evacuated for their personal safety. Fire extinguishers have been provided within the building to extinguish small fires.

## 2. Geographical Location

The fire emergency plan applies to Maritime Metal Inc.'s business location at 60 Simmons Drive, Dartmouth, Nova Scotia.

## 3. Procedure

### **BE PREPARED**

Know the location of the fire exits, fire alarms and fire extinguishers in your workplace. Familiarize yourself with the procedures below and participate in fire training so that you are prepared in case of a fire.

### **IF YOU DISCOVER A FIRE**

If you see or hear a fire or smell smoke pull the closest fire alarm.

### **TAKE IMMEDIATE ACTION AND DIAL 911**

Dial 911 from a safe location and give the operator all the pertinent facts. When the 911 operator answers give the following information:

- **Your name.**
- **That you are calling from Maritime Metal Inc. at 60 Simmons Drive, Burnside Industrial Park, Dartmouth, Nova Scotia.**
- **That there is a fire currently in process at your facility.**
- **Give the precise nature of the fire (ie - car fire, chemical fire, electrical fire, outdoor grass fire, building fire, fuel fire).**
- **Tell the operator which entrance the fire truck should enter.**
- **Indicate whether there are any injuries and the number and extent of those injuries.**
- **Do not hang up until given permission to do so by the operator. Dispatch an employee to the entrance to guide the fire truck to the fire area.**

### **USE OF EXISTING EQUIPMENT**

You may try to put out the fire if it is small enough using existing equipment – use your best judgment – if trained and confident. In the event that the fire is small enough to be extinguished by a fire extinguisher, fire extinguishers have been placed around the building and are identified. Become aware of the fire extinguisher locations and familiar with accessibility. If the fire does not go out or

spreads after attempting to extinguish flames, leave the area immediately and close all doors on your way.

### **EVACUATION**

If the fire is clearly out of control, notify all other in danger. **YELL FIRE** and evacuate all personnel from the building to the designated muster station outside the building. Assist people with disabilities and children, as required. Fire wardens are to ensure that all employees and visitors are out of the building and proceed out behind them, closing but not locking the doors as they leave. Leave buildings by the nearest safe exit. All employees, guests and visitors are to proceed to the designated muster station in the employee parking area and ensure that their names are on a list of those who are out of the building. This list will be prepared by a designated fire warden. Material Safety Data Sheets are to be taken by the fire warden and made available to the fire department, as required. All personnel are to wait outside the building as directed by the fire department. You are to re-enter the building only after the fire department has given permission to do so.

### **IF YOU ARE TRAPPED**

- Dial 911 and give a description of your location
- Place towels/clothes (wet if possible) at the bottom of the door
- Open window, if possible
- Stay close to the floor if there is a lot of smoke

### **IF YOUR CLOTHES CATCH FIRE**

- Stop whatever you are doing
- Drop to the ground
- Roll to smother the flames
- If someone else's clothes catch fire, have them stop, drop and roll. Try to smother the flames with a piece of clothing.

### **USING AN EXTINGUISHER**

Think "PASS"

- Pull the safety pin at the top of the extinguisher
- Aim the nozzle/hose at the base of the flames
- Squeeze or press the handle
- Sweep from side to side at the base of the fire until it is out

### **KNOW YOUR EXTINGUISHER**

- Type A (green triangle) – use for paper and wood
- Type B (red square) – use for flammable liquids such as gas, oil and paint
- Type C (blue circle) – use for electrical fires involving wires or appliances



**NOTIFY MANAGEMENT**

The Manager, if not on-site, is to be notified immediately. Emergency numbers are posted on an emergency contact list at the facility.

**RESPONSIBILITY**

Fire wardens are responsible to ensure everyone is out of the building and directed to the specified muster station for a roll call and to take a copy of the MSDS listing to be presented to the fire department. Other employees are to report to the muster station and should not re-enter the building until advised to do so by the fire department. Supervisors are to ensure that senior management has been notified of the fire, if not the location.

SCHEDULE "D"  
TRAINING CARDS

This is to Certify That:

**ROBERT WAMONK**  
has successfully completed the training program on

**WHMIS**  
(Workplace Hazardous Materials Information System)

COMPANY: HARBOR PURCH

DATE: MAR 25 2007 [Signature]  
Authorized Signature

**CERTIFICATE OF TRAINING  
EMPLOYEE'S COPY**

Name of Employee: ROBERT WAMONK

to certify that, in accordance with Part 41(1) of the Transportation of Dangerous Goods Regulations, the above-named driver has received adequate training in the:

Handling  of Dangerous Goods  of Dangerous Goods  of Dangerous Goods  of Dangerous Goods

Signature of Trainer: [Signature] Date of Training: Mar 6 2007

Company Stamp or Signature of Employer: [Signature]

Address of Employer: 191 JOSEPH ZETZLWEG

City, Province: DORCHESTER N.S.