

Inukshuk
CONSTRUCTION

*PO Box 654
Rankin Inlet, NU
X0C 0G0
Tel: (867) 645-4030
Fax: (902) 429-7762*

Spill Contingency Plan

Fuel Facility Upgrade Project Rankin Inlet, NU

Prepared by:

**Inukshuk Construction Limited
PO Box 654
Rankin Inlet NU,
X0C 0G0**

**Mosher Engineering Limited
1869 Upper Water Street Suite AH 202
Halifax NS,
B3J1S9**

Prepared for:

**Government of Nunavut
Public Works and Services
P.O. Box 002
Rankin Inlet, NU
X0C 0G0**

Point of Contact for Inukshuk Construction Limited:

David Mosher, P.Eng
Tel: (902) 429-0272
Res: (902) 429-3430
Fax: (902) 429-7762

Email: dave@mosher.ca

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1.0 Introduction

Inukshuk Construction has been contracted by the Government of Nunavut to upgrade the fuel storage facility in Rankin Inlet, NU. Our firm will be handling various hazardous materials and there is the potential for a spill.

Inukshuk Construction and its sub contractors are committed to ensuring that hazardous materials are not accidentally discharged to the environment. However, in the event a spill does occur, we have prepared the following spill contingency plan to minimize the environmental impact.

An emergency, such as a spill is a very stressful situation. The following plan will ensure that all personnel are aware of the procedures that must be following in the event of a spill. This plan will ensure that life is protected, injuries minimized, resources are used effectively, environmental impact is kept to a minimum and essential reporting is conducted.

1.1 Applicable Regulations

The GN requires that any person or company storing over 20,000 litres of contaminants in an aboveground storage facility must have a spill contingency plan in place.

1.2 Scope of Work

General

The Rankin Inlet Fuel Facility Expansion project involves the following work.

- Mobilization of materials, machinery and equipment required to complete the work via sealift from Montreal and Churchill, MB
- Provision of a temporary fuel dispensing facility
- Construction of containment berms and installation of an impervious HDPE liner
- Cleanup of approximately 6,000 cu m of contaminated soil
- Installation of resupply pipelines for gasoline, LSDL and JET A1 product
- Installation of spill basin and resupply manifold
- Erection of three 3,064,000 liter Jet A1 storage tanks
- Erection of two 2,565,000 liter LSDL storage tanks
- Erection of one 1,986,000 liter LSDL storage tank
- Surface preparation, sandblasting of existing lead-based paint and painting of all tanks, piping and structural steel
- Installation of new Operators Shelter
- Installation of a new Gasoline/Diesel Dispenser Building
- Installation of a Jet A1 Dispenser Building
- Installation of new fencing
- Site electrical work including grounding, lighting and power

1.3 Hazardous Materials Expected to Be Encountered

During the implementation of this project, we will encounter the following hazardous materials will be encountered.

- Jet A1 fuel, LSDL fuel, and gasoline
- Tank sludge
- Contaminated soil
- Epoxy paint products
- Lead-based paint from the existing tanks
- Hydrotest water

1.4 Owner Contact Information

The owner of the facility is the Government of Nunavut, Petroleum Products Division. The contact personnel are as follows:

Project Officer

Wayne Thistle, CET
Acting Regional Projects Manager
Dept. of Community & Government Services
Kivalliq Region, Government of Nunavut
PO Bag 002, Rankin Inlet, NU, X0C 0G0

Phone # (867) 645-8178
Fax # (867) 645-8196
Cell # (867) 645-6806
Email: WThistle@GOV.NU.CA]

Petroleum Products Division

Mr. Todd MacKay
Government of Nunavut
Public Works and Services
P.O. Box 002
Rankin Inlet, NU
X0C 1X0

Tel: (867) 645-5172
Fax: (867) 645-6806
Email: TMcKay@GOV.NU.CA

1.5 Inukshuk Construction Limited and Mosher Engineering Limited Contact Personnel

In the event of a spill, the Inukshuk Construction Site Supervisor will be responsible for activating the spill contingency plan.

The 24 hour contact information for our personnel are as follows:

Tony King
Site Supervisor
Rankin Inlet, NU

Hotel #: (867) 645-2231
Fax #: (867) 645-2231
Cell #: (902) 478-4700

John Winters
Site Supervisor
Rankin Inlet, NU
Hotel #: (867) 645-2231
Fax #: (867) 645-2231
Cell #: (902) 483-0398

The crew are also equipped with radios.

David Mosher, Senior Project Manager
Office: (902) 429-0272
Home: (902) 429-3430
Cell: (902) 483-9677
Fax: (902) 429-7762
E-mail: dave@mosher.ca

1.6 Fuel Storage Facility Description

The existing fuel storage facility consists of storage tanks for gasoline, LSDL and Jet A1 fuel. The tanks are stored inside a bermed tanklot with impervious HDPE liner. There are dispensers for gasoline, diesel and Jet A1 located just outside the dyke.

The new facility will consist of six additional storage tanks, a new berm and pipeline.

During construction, a temporary fuel dispenser will be installed. It will consist of horizontal tanks located inside a lined berm for spill containment.

1.7 Potential Hazards & Risk Mitigation

We have considered the various types of spills that can occur during this project and listed them below. The type of spill will affect our response.

Fuel Spill During Decommissioning

While fuel lines and tanks are being decommissioned, there is the potential for a spill. To mitigate this risk, we will use only trained, experienced person for this work. We will also have on hand half drums for catching fuel, absorbent pads and speedy dry in case of a spill.

If a spill were to occur, we would immediately excavate the contaminated soil and place it in the new contaminated soil storage area.

Tank Sludge

There is the potential for tank sludge to spill on the ground while cleaning tanks.

If this were to occur, we would excavate the contaminated soil and place it in the new contaminated soil storage area.

Refueling of Equipment

There is the potential for a spill while we are refueling equipment. To mitigate this hazard we use a truck mounted fuel truck with Gasboy dispenser. We only use experienced personnel for this task and the fuel pump will automatically shut off if left unattended.

Paint Spill

There is the potential for a paint spill while the tanks are being painted. This risk is mitigated by the use of tarps for storing paint.

Lead Paint Removal

During the surface preparation process, we will encounter lead paint chips. This risk will be mitigated by the use of tarps to contain the debris. The personnel will also wear appropriate PPE to eliminate inhalation risks.

Detailed procedures for the lead abatement will be submitted prior to start of painting operation.

1.8 Spill Contingency Plan

Introduction

In the event of a spill, the site supervisor will immediately be notified by telephone. The site will be secured and steps will be taken to minimize spill impact.

Reporting

As soon as the site is secure, the site supervisor will notify the owners and the Inukshuk Construction project management staff.

Cleanup

We have absorbent materials on site consisting of speedy dry and absorbent pads. We also have heavy equipment on site in the event contaminated soil has to be excavated.

Depending on the site of the spill, appropriate measures will be taken to cleanup the site.

Disposal

Any contaminated soil that gets excavated will be stored in the new contaminated soil landfarm.