

Inukshuk
CONSTRUCTION

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Spill Contingency Plan

Fuel Facility Upgrade Project Rankin Inlet, NU

Prepared by:

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Prepared for:

**Government of Nunavut
Public Works and Services
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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.

Hazardous Material	Quantities
Jet A1 Fuel	9000cum (Max tank capacity)
Tank Sludge	5000L (Estimate)
Contaminated Soil	Unknown
Lead-Based Paint	Unknown
Hydrotest Water	3000cum

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.

Personnel

There will be two persons doing the hydrostatic testing and both will have two way radio. Also, there will be up to twelve workers in the tank farm doing other work. In the event of a spill all can become available to help contain and clean the spill under the instruction of the site supervisor.

Reporting

As soon as the site is secure, the site supervisor will notify the owners and the Inukshuk Construction project management staff. There will be working activity 24hrs per day during the construction period. There will always be someone with a two way radio who could call the site supervisor and arrange the manpower contain and proceed with cleanup.

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 clean up the site.

Disposal

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

Location of MSDS

The MSDS will be stored in the site office.

Content and location of spill kits

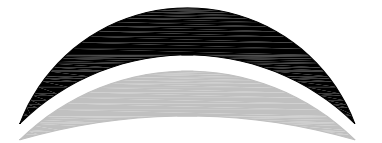
Spill kits contain shovels, broom, buckets, hydrophobic pads, speedy dry, for petroleum liquid leak. The spill kit will be located at the tank farm inside the dyke area. The kit will be easily accessible. A pump and hose in the event of a large hydrostatic test water spill will also be readily available in the tool container at the tank farm.

Map of suitable scale

See attached drawing C1 and C3

NT/NU Spill Report Form

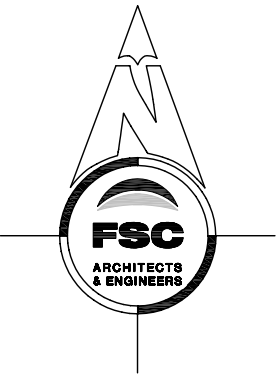
See attached



FSC

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& ENGINEERS**

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X1A 2P4 (867) 920-2882
Fax (867) 920-4319 www.fsc.ca



PERMIT TO PRACTICE
FSC ARCHITECTS & ENGINEERS
Signature: [Signature]
Date: 20 March 2006
PERMIT NUMBER: P0457
The Association of Professional
Engineers, Geologists and
Geophysicists of the NWT/NU



2	ISSUED FOR TENDER	MAR 31 2007			
1	90% REVIEW SUBMISSION	MAR 2006			
0	50% REVIEW SUBMISSION	FEB 2006			
NO	REVISION	DATE	BY	APP'D	

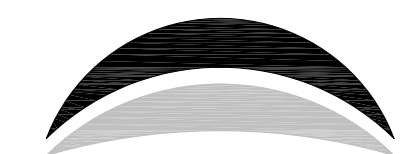


JOB TITLE
**FUEL STORAGE
FACILITY UPGRADE
AND EXPANSION**

RANKIN INLET, NU

DRAWING TITLE
OVERALL SITE PLAN

DESIGNED BY WO	SCALE 1:2500
DRAWN BY SRB	DATE MARCH 29, 2006
CHECKED BY WO	CLIENT PROJECT NO.
F.S.C. FILE NO. C1_REV.DWG	F.S.C. JOB NO. 2005-2150
SHEET 1 OF 67	DRAWING NO. C1



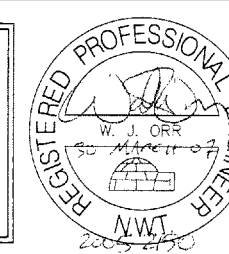
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FSC ARCHITECTS AND ENGINEERS
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Date: 22 MARCH 2006
PERMIT NUMBER: P0457
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JOB TITLE
**FUEL STORAGE
FACILITY UPGRADE
AND EXPANSION**

RANKIN INLET, NU

DRAWING TITLE
**PROPOSED SITE
LAYOUT**

DESIGNED BY WO	SCALE 1:400
DRAWN BY SRB/FG	DATE MARCH 29, 2006
CHECKED BY WO	CLIENT PROJECT NO.
F.S.C. FILE NO. C3.DWG	F.S.C. JOB NO. 2005-2150

SHEET 3 OF 67	DRAWING NO. C3
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Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR		REPORT TIME		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____-_____
	OCCURRENCE DATE: MONTH – DAY – YEAR		OCCURRENCE TIME			
C	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NUMBER (IF APPLICABLE)		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION				REGION <input type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE			LONGITUDE		
	DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS
F	RESPONSIBLE PARTY OR VESSEL NAME		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
I	SPILL SOURCE		SPILL CAUSE		AREA OF CONTAMINATION IN SQUARE METRES	
	FACTORS AFFECTING SPILL OR RECOVERY		DESCRIBE ANY ASSISTANCE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS					
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE	
	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE	

REPORT LINE USE ONLY

N	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER
		STATION OPERATOR		YELLOWKNIFE, NT	(867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					