

BURLINGTON
RESOURCES
CANADA ENERGY LTD.



March 19, 2001

Northwest Territories Water Board
P.O. Box 1500
2nd Floor Goga Cho Building
Yellowknife, N.W.T.
X1A 2R3

Attention: Gordon Wray
Chairman

COPY	1
BOARD	4
G.W.	1
E.A.	1
W. REC.	ORIG
FILE	1761

Dear Mr. Wray,

Re: **Water License N7L1-1761 – Spill Contingency Plan**

Please find enclosed one (1) copy of the Oil and Hazardous Material Spill Contingency Plan prepared by Veritas DGC Land on December 15, 2000.

Please accept our apologies for the late filing of this Contingency Plan. Veritas advised Burlington in early January that the Plan had been filed with the Northwest Territories Water Board on our behalf. On March 6, 2001, Steve DeWolfe, Veritas's Operations Supervisor, realized that he had forgotten to submit the document at the correct time. He immediately e-mailed the Plan to Brian Collins and Greg Cook and at the same time sent a hard copy of the plan to your attention.

We also regret the confusion that ensued because the document was submitted on Veritas's letterhead. We have now corrected the document and hope it meets with your approval. Please note, the content of the Plan is essentially the same as the version sent to you on March 6, 2001.

Please contact me at (403) 260-6334 if you have any questions or if there are any other outstanding issues.

Thank you for your time and consideration.

Yours truly,

BURLINGTON RESOURCES CANADA ENERGY LTD.

Diana Pane
Manager, Regulatory & Community Affairs
Surface Land, Environment & Safety

cc: Brian Collins, Water Resources Division
Scott Gallupe, INAC
Steve DeWolfe, Veritas

BURLINGTON
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Oil and Hazardous Material Spill Contingency Plan

Prepared by Veritas DGC Land



VERITAS DGC Land

A Veritas DGC Company

**Prepared by:
Gary Dick
SR. HSE Advisor (Canada)**

**Approved by:
Craig Massey
HSE Manager(Canada)**

**Date of issuance:
December 15, 2000**

PREAMBLE.

The following spill contingency plan is to be implemented in the event of a release of any liquid or substance not authorized for release into the environment during any project directly or indirectly controlled by Veritas DGC Land while working in the Mackenzie Delta Region of the Northwest Territories for Burlington Resources Canada Energy Ltd.

The spill contingency plan is effective from Dec 10, 2000 to June 1, 2003 this plan applies to all projects and operations of Veritas DGC Land licensed by the Northwest Territories Water Board on behalf of Burlington Resources Canada Energy Ltd. in the Mackenzie Delta Region.

The following formal distribution has been made of this plan.

Inuvialuit Environmental Inc.

NWT water board.

National Energy Board.

Burlington Resources Canada Energy Ltd.

Veritas DGC Land.

Chevron Canada Ltd.

Additional copies and updates of this plan can be obtained by contacting:

Burlington Resources Canada Energy Ltd.

Attn: J. Beric Evans

3700 250 6 Avenue SW

Calgary, AB

Canada T2P 3H7

Inuvialuit Environmental Inc.

1338-36 Avenue N.E.-Bay R

Calgary, AB Canada T2E 6T6

Phone: (403) 291-0777

Fax: (403) 291-1150.

Veritas DGC Land.

Attn: Steve Dewolf

2700-61 Avenue SE

Calgary, AB

Canada T2C 4V2.

Veritas DGC Land

MacKenzie Delta Operations

Attn: Wayne Ross

PO Box 2422

Inuvik, NWT

X0E 0T0

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1.0 Introduction

The purpose of Veritas DGC Lands Oil and Hazardous Materials Spill Contingency Plan is to provide a plan of action for every foreseeable spill event on the two Mackenzie Delta Operations Areas. It defines the responsibilities of key response personnel and outlines the procedure for responding to spills in a way that will minimize potential Health and Safety hazards, Environmental damage, and clean up costs. The plan has been prepared to provide easy access to all the information needed when dealing with a spill.

The maps (Figures 1 and 2) on the following pages outline the Burlington Resources and Alberta Energy Corps project areas in the Mackenzie delta Region. Currently there are two sleigh camps proposed for each project. They will consist of 14 trailer units each mounted on skis. Each camp will be broken down into 3 strings of trailers pulled by caterpillars. Two strings will consist of 5 trailers and the third having 4. All fuel needs for the generators and other machinery will be hauled on a daily basis to each camp location.

All Fueling nozzles and related fueling apparatus has been converted to the Fuel Comm system that is a spill free system. All fuel tanks have been converted to double wall tanks to help prevent a spill in the event of a tank becoming ruptured. Fuel bowzers are equipped with a fuel containment dam allowing for 110 percent of the total fuel capacity.

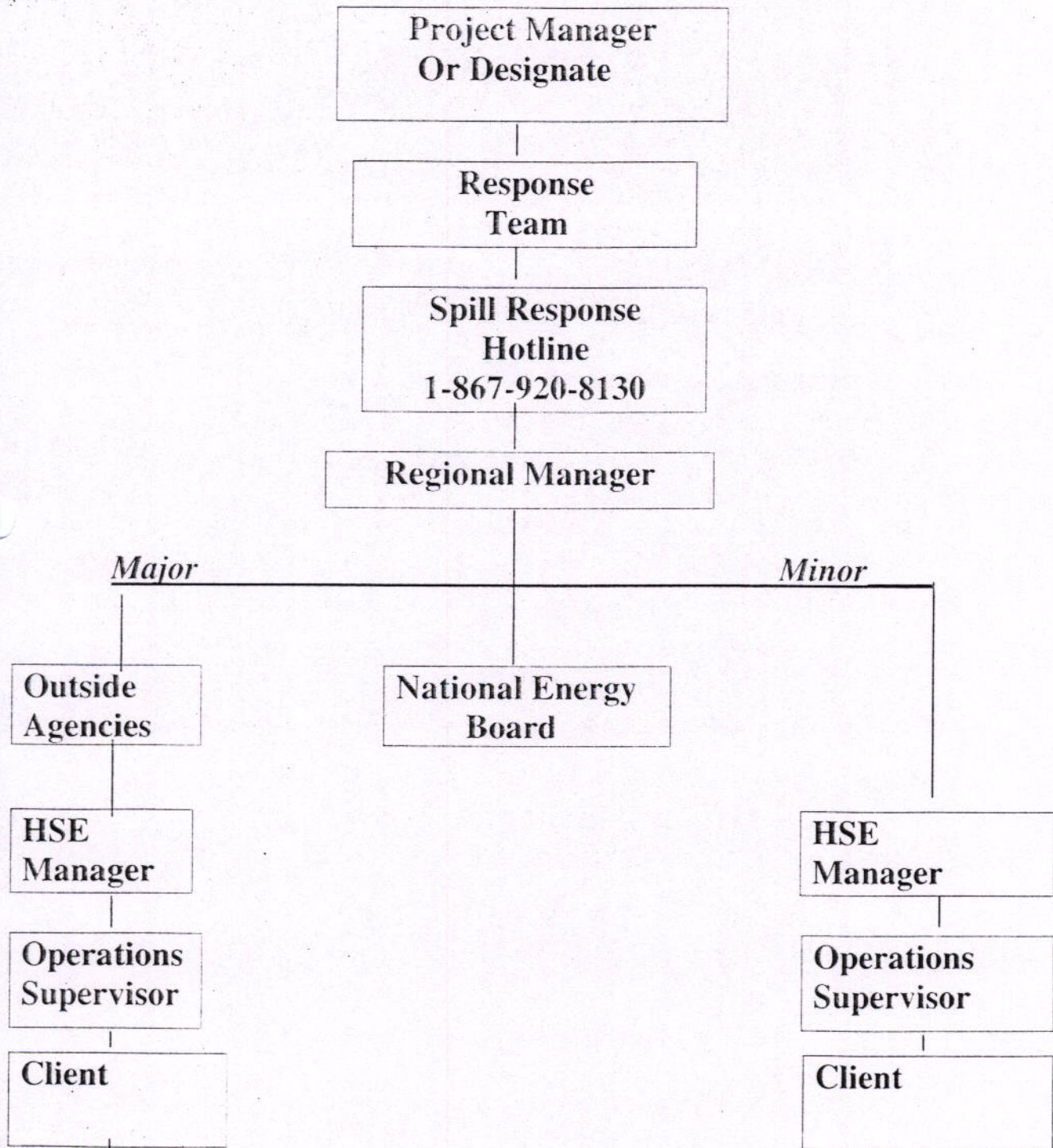
Hazardous materials used at the proposed sites will include Gasoline, Diesel fuel, Oil and Lubricants, Cleaning Solvents, there is a possibility of some Explosives material along with Detonators (this is yet to be determined)

It is the policy of Veritas DGC Land to initiate clean up activity when, in the opinion of its management, Veritas DGC Land is clearly associated, or likely to be associated, with the spilled material. As well it is our company policy:

- to comply with existing regulations;
- to provide such protection of the environment as is technically feasible and economically practical;
- to cooperate with other groups working on the protection of the environment;

- to anticipate future pollution control requirements and to make provision for them;
and
- to keep employees, government officials and the public informed.

2.0 Response Organization



**General
Manager**

**General
Manager**

3.0 Initial Response

There are **four primary objectives** when dealing with an uncontrolled release of hazardous substances. They are, in order of importance and sequence of handling:

SAFETY OF PERSONNEL

RESCUE

SPILL CONTROL

ENVIRONMENTAL CONSERVATION

Safety of Personnel

Nothing that we do in emergency spill control is as important as the safety of the individuals involved in the incident. At Veritas DGC Land, if any portion of the response procedures is dangerous to the safety or well being of the worker it will not be conducted. That is to say, if a plan needs reworking, this will be conducted prior to proceeding.

Rescue

Any personnel who may have been injured due to a spill need to be removed from the area immediately, keeping in mind the anatomy and severity of the injury. You should remember that the hazardous material involved might be dangerous to the injured worker, or dangerous to the type of rescue and material used.

Spill Control

Spill control methods utilised are to be concerned with protecting people, the waterways, the water tables, and all other aspects of environmental conservation. This means that we need to do everything possible to stop, control, and clean up any releases to minimise the danger and subsequent problems after the fact. Proper techniques in spill control are to be taught to personnel on crews, and this information is to be disseminated to new workers as soon as possible after arriving on the crew.

Environmental Conservation

Efforts at spill control clean up are concentrated upon protection of the workers, the environment, and limiting the amount of damage to the area. Workers should have the phone contact numbers of appropriate agencies on site at all Veritas DGC Land jobs to facilitate their ability to receive proper, knowledgeable assistance from various professionals.

- a) Emergency spill reporting numbers have been added to include Northwest, Yukon and Nunavut Territories, along with the appropriate personnel and contact numbers at the National Energy Board. These numbers have also been added to the Field ERP.
- b) Mandatory reporting quantities have been added to state that any spill or potential spill shall be reported as soon as reasonably possible regardless of size or quantity. This will include notification to John Korec, Conservation Officer of the National Energy Board (for the Boards Chief Conservation Officer Terry Baker)

Spill Reporting Hotline 24 Hours: 867-920-8130.
National Energy Board contact: John Korec (403)292-6614
Home (403)275-6256
Or(403)370-6256

4.0 Reporting Procedures

In the event of a spill the previous flowchart is to be used to report the incident. Any relevant paperwork is to be e-mailed or faxed as soon as possible to the respective agencies.

VERITAS DGC LAND SPILL REPORT

Crew # _____ Job # _____ Job Name _____ Client _____

Name of Employee _____ Position _____

Employer / Contractor _____ Phone Number _____

Date of spill _____ Time of spill _____

Detailed location of spill _____

Name of product _____ Est. quantity spilled _____

Description of incident _____

On scene response _____

Spill Report (cont.)

Name of Veritas DGC Land Supervisor Advised _____

Name of Client who was advised _____

Name of Environmental Authority Advised _____

Others Advised _____

How could this incident have been avoided? _____

Employees Signature _____

Clerk's Name _____

SUPERVISORS REPORT

Supervisors Name (please print) _____

Comments: _____

Supervisors Signature _____

The previous form is to be sent to Veritas DGC Land's HSE Office by Fax as soon as possible following the incident.

The following Form is to be forwarded to the Northwest Territories 24 Hour Spill Response Line as soon as possible following the notification of a spill

Government of the Northwest Territories

SPILL REPORT

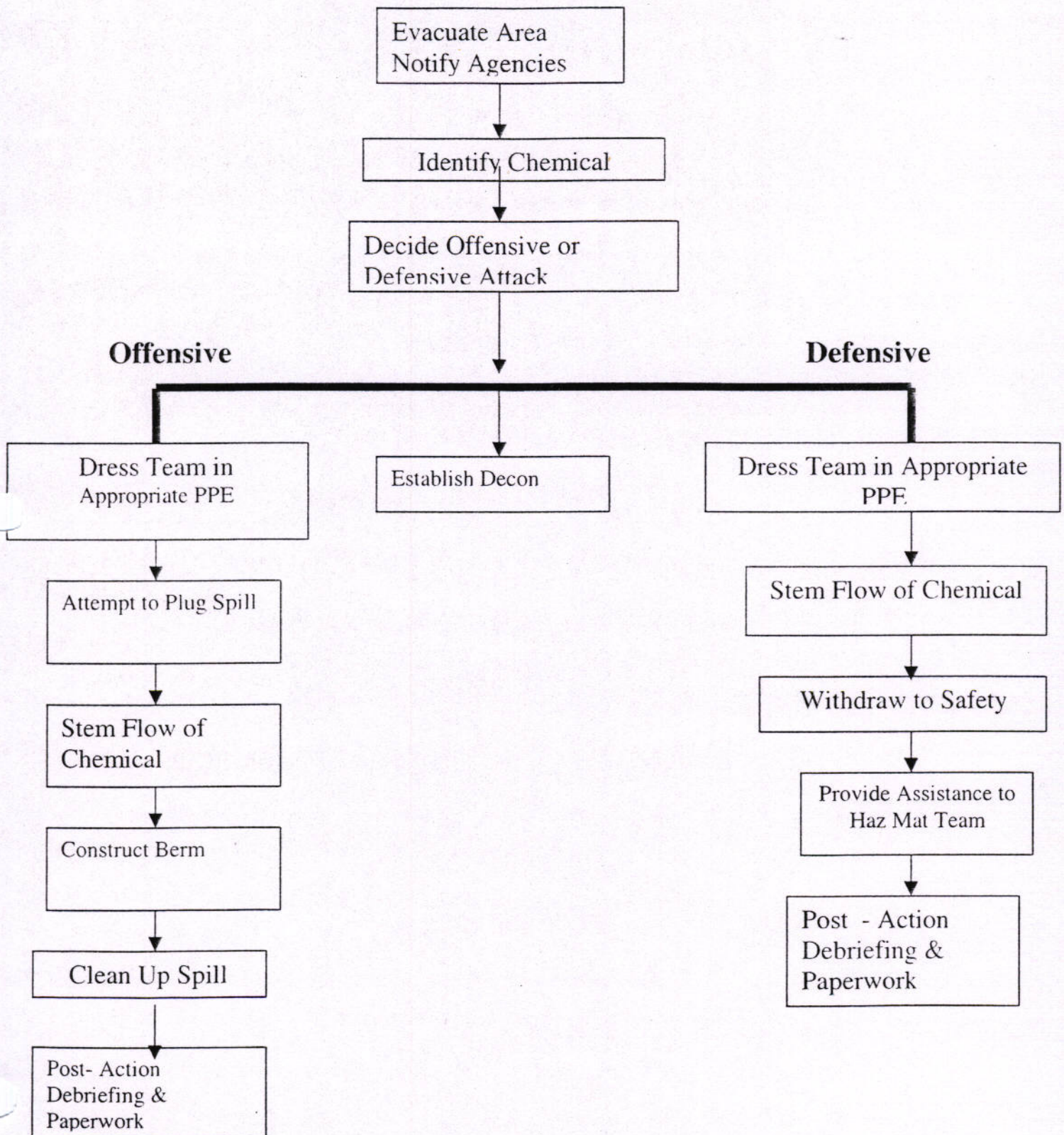
(Oil, Gas or Other Materials, i.e. Hazardous Chemicals, etc.)

A	Report Date	Date and Time of Spill if Known
B	Location and Map Coordinates (if known) and Direction if Moving	
C	Party Responsible	
D	Product Spilled and Estimated Quantities (Provide Metric Volumes/Weights if Possible)	
E	Cause of Spill	
F	Is Spill Terminated or Continuing	
G	Extent of Contaminated Area	
H	Factors Affecting Spill or Recovery – Temperatures, Wind, Snow, Ice, Terrain, Buildings, etc.	
I	Containment – Naturally, Booms, Dykes or Other. No Containment	
J	Action, if any, Taken or Proposed to Contain, Recover, Clean-up or Dispose	
K	Do you Require Assistance	If so, what Form
L	Hazard to Persons or Property or Environment – Fire, Drinking Water, Threat to Fish or Wildlife	
M	Comments and/or Recommendations	

Reported by	Position, Employer, Location	Telephone
Reported to	Position, Employer, Location	Telephone

5.0 Action Plan

VERITAS DGC LAND SPILL RESPONSE FLOW SHEET



6.0 Environmental Mapping

See attached file.



7.0 Resource Inventory

The following equipment has been added to help deal with a Spill.

- a) All Vibrators and support vehicles will be equipped with spill kits contained in five-gallon pails with lids which would include but not be limited to absorbent pads, damming material, small shovel. The pail would be used for disposing of any waste.
- b) The Vibrator fuel truck due to the size of the tank would carry a much larger kit to deal with a ruptured fuel tank. This would be kept on the fuel truck in Forty five-gallon drums. Again the drums would be used for disposal purposes.
- c) All spill kits will be kept up to predetermined levels, keeping in mind due diligence. The project manager or HSE personnel will conduct weekly audits. All audits will be documented and kept as part of the job file.

Fire suppression equipment will include but not be limited to the following:

- a) Fire suppression equipment will be available at the campsite as well as field locations.
- b) All vehicles and fuel locations will be equipped with class ABC extinguishers per Veritas operating procedures and National Energy Board requirements.
- c) A large firebox will be maintained at the camp or staging area. This box will be kept equipped and in a state of readiness at all times. Required equipment will be determined by the land Use Permit conditions and National Energy Board requirements for fire response.

7.0 Training and Exercises

PERSONNEL TRAINING:

A pre-Start safety meeting will be conducted to include spill response plans and any other Emergency response plans pertaining to the job sites. It is recommended that all personnel in a supervisory position should be trained in Emergency Spill Response procedures along with Fire suppression. Along with supervisory personnel Mechanics, Vibrator Technicians and vibrator operators will be trained in spill response.

All crewmembers should receive training in fire suppression prior to arrival at the job site. All training should be documented and maintained as part of the job file as per normal operating procedures.

RESPONSE TRAINING:

Response exercises will be conducted on a BI-weekly basis. Crews are to be given periodic questions in the morning safety meetings. All exercises and question periods are to be documented and kept as part of the job file. The file is to be made available to any National Energy Board, Northwest Territories Government as well as client personnel.

8.0 Follow up report



HSE DEPARTMENT FOLLOW-UP REPORT

Name of Investigator _____ Job Title _____

Immediate environmental impact on the area _____

Possible **long-term** environmental impact on the area _____

Final clean-up results _____

Comments _____

Root Cause _____

Signature _____ Date _____

NEB CONTACTS TELEPHONE LIST

NATIONAL ENERGY BOARD

Telephone Number

Rick Fisher , Drilling Specialist	Office: (403) 299-2798 Home: (403) 220-0893
Rick Turner , Operations Inspector (Occupational Safety & Health)	Office: (403) 299-3868 Home: (403) 257-0840
Chris Knoechel , Operations Engineer	Office: (403) 299-3866 Home: (403) 241-0047
Andrew Graw , Operations Engineer	Office: (403) 299-2790 Home: (403) 547-3073
John Korec , Environmental Assessment Officer (Spills)	Office: (403) 292-6614 Home: (403) 275-6256 (403) 370-6256
Tod Collard , Environmental Assessment Officer	Office: (403) 299-2769 Home: (403) 256-1902
Terry Baker , Chief Conservation Officer	Office: (403) 299-2792 Home: (403) 239-5032
John McCarthy , Chief Safety Officer	Office: (403) 299-2766 Home: (403) 240-2354
Calgary Main Office	(403) 292-4800
FAX:	(403) 292-5876

NWT SPILL REPORTING - 24 HOUR SPILL LINE: (867) 920- 8130

John Korec , Environmental Assessment Officer	Office: (403) 292-6614 Home: (403) 275-6256
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Hazardous occurrences (as prescribed under section XVI of the *Canada Oil and Gas Occupational Safety and Health Regulations*) are to be reported to the N.E.B. immediately. The N.E.B. also requires immediate notification of any accident or incident requiring medivac.

21/09/00



VERITAS DGC Land
A Veritas DGC Company

FIELD EMERGENCY RESPONSE PROCEDURE

In the event of an accident and/or injury in the field, the severity of the accident may govern the actual procedure to follow. Following is a general guideline:

- 1) Attend to the injured, remove the danger, stop the blood flow, keep warm.
- 2) Put out the fire, if required & if possible.
- 3) Contact the Project Manager or Recording Crew Manager.
- 4) Secure the area.

OSCAR PROGRAM (ON SCENE CONTROLLER): The medic is normally Oscar during a medical incident, however if necessary "Oscar" will be assigned to another, i.e.. Slasher Foreman, Drill Push, Project Manager, etc. The duties of the "Oscar" are as follows: 1) Ensure crews have stopped working. 2) Inform crew manager of the incident. 3) Start a log of time & events. 4) Inform hospital & update as events occur. 5) Decide pad to evac the victim from. 6) Follow incident flow sheet, as able. 7) Co-ordinate efforts between all emergency response personnel. 8) Have crew manager decide disposition of the crews.

DATE:	<u>DECEMBER 20/00</u>	PROGRAM NAME:	<u>MACKENZIE DELTA 2D</u>
TOWN/LOCATION:	<u>INUUVIK, NT.</u>		
STAGING	LAT: <u>68 21N</u>	LONG:	<u>133 43W</u>
	<u>NAME</u>	<u>PHONE</u>	
FIELD OFFICE	<u>#80 Navy Rd, Inuvik.</u>	<u>(867)777-3493</u>	
CREW MANAGER	<u>Wayne Ross</u>	<u>(867)777-3493 Off. (867)777-4471 Res.</u>	
SR. HSE ADVISOR	<u>Gary Dick</u>	<u>(867)777-5317 Off. (867)777-4710 Res.</u>	
OPERATIONS SUP.	<u>Steve Dewolf</u>	<u>(403)257-6740 Off. (403)519-2217 Cell.</u>	
SHOP SUPERVISOR	<u>Jeff Jabour</u>	<u>(867)777-5316 Off.</u>	
CLIENT REP.	<u>Burlington-Bruce Scofield</u>	<u>AEC-Ray Prudhome</u>	
R.C.M.P.	<u>Inuvik</u>	<u>(867)777-2935</u>	
AMBULANCE	<u>Inuvik</u>	<u>(867)777-4444</u>	
HOSPITAL	<u>Inuvik</u>	<u>(867)777-8000</u>	
FIRE DEPARTMENT	<u>Inuvik</u>	<u>(867)777-5555</u>	
N.E.B. INSPECTOR	<u>Rick Turner</u>	<u>(403)299-3868 Off. (403)257-0840 Res.</u>	
N.E.B. ENVIRONMENTAL ASSESSMENT OFFICER	<u>John Korec</u>	<u>(403)292-6614 Off. (403)275-6256 Res.</u>	
ALTERNATE HELI	<u>Canadian(Inuvik)</u>	<u>(867)777-2424</u>	
H.S.E. DEPT.:	<u>(403) 257-6700</u>	<u>CRAIG MASSEY Cell. (403)660-9948</u>	
AB ENVIRO.:	<u>(800) 222-6514</u>	<u>H.S.E. EMERGENCY PAGE (403) 230-6173</u>	
SK ENVIRO.:	<u>(800) 667-7525</u>	<u>BC ENVIRO.: 1-800-663-3456</u>	
NWT SPILL REPORT LINE	<u>(867) 920-8130</u>	<u>CAGC EMER.: (403) 265-0045</u>	
ALBERTA PUBLIC SAFETY SERVICES:	<u>1-800-272-9600</u>		