

ALEXCO

KENO HILL MINES

EMERGENCY RESPONSE GUIDE

Version – January 2008

Distribution:

Alexco: Senior Project Manager
Site Coordinators
Exploration Manager
Contractors
All Light Vehicles

Corporate:
Alexco Resource Corp. - Vancouver

Community:
Mayo Nursing Station
Mayo RCMP
Mayo Fire Department
Renewable Resources, Mayo

Government:
Occupational Health & Safety - YWCHSB
Environment Canada Enforcement & Emergencies
Yukon Government Type II Office
Yukon Government Water Resources

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1.0 PURPOSE

This guide sets out the response protocol in the event of a “Serious Incident” as defined in the following section.

It is intended for use as a quick reference handbook for managers and supervisors. Incident reporting and investigating is also outlined.

In an emergency situation it is imperative that due diligence is exercised as well as discretion. The priorities are the protection of **LIFE, LIMB and PROPERTY** – in that order.

2.0 DEFINITIONS

2.1 “SERIOUS INCIDENT”

A “**Serious Incident**” is defined as any occurrence meeting one of more of the following criteria:

1. Any “serious injury” or “serious accident” as defined in OH&S 33(1) (see Section 2.2),
2. Any incident requiring first aid or rescue response to the scene,
3. Any fire requiring discharge of a fire extinguisher,
4. Any release of process solution outside of containment,
5. Any release of a hazardous product where there is potential for that product to enter a waterway,
6. Any hazardous product spill of reportable volume, as defined in Section 11.0.

2.2 “SERIOUS INJURY” AND “SERIOUS ACCIDENT” UNDER OH&S ACT

(Excerpt from Occupational Health & Safety Act)

33. (1) In this section, “**Serious Injury**” means

- (a) an injury that results in death,
- (b) fracture of a major bone, including the skull, the spine, the pelvis, or the thighbone,
- (c) amputation other than of a finger or toe,
- (d) loss of sight of an eye,
- (e) internal bleeding,
- (f) third degree burns,
- (g) dysfunction that results from concussion, electrical contact, lack of oxygen, or poisoning, or
- (h) an injury that results in paralysis (permanent loss of function);

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“Serious Accident” means

- (a) an uncontrolled explosion,
- (b) failure of a safety device on a hoist, hoist mechanism, or hoist rope,
- (c) collapse or upset of a crane
- (d) collapse or failure of a load-bearing component of a building or structure regardless of whether the building or structure is complete or under construction,
- (e) collapse or failure of a temporary support structure,
- (f) an inrush of water in an underground working,
- (g) fire or explosion in an underground working,
- (h) collapse or cave-in, of a trench, excavation wall, underground working, or stockpile,
- (i) accidental release of a controlled product,
- (j) brake failure on mobile equipment that causes a runaway,

any accident that likely would have caused serious injury but for safety precautions, rescue measures, or chance. (As amended by SY 1988, c.22, s. 5; SY 1989, c. 19, s.6)

Reprinted from “Occupational Health and Safety with Mine Safety Regulations.”

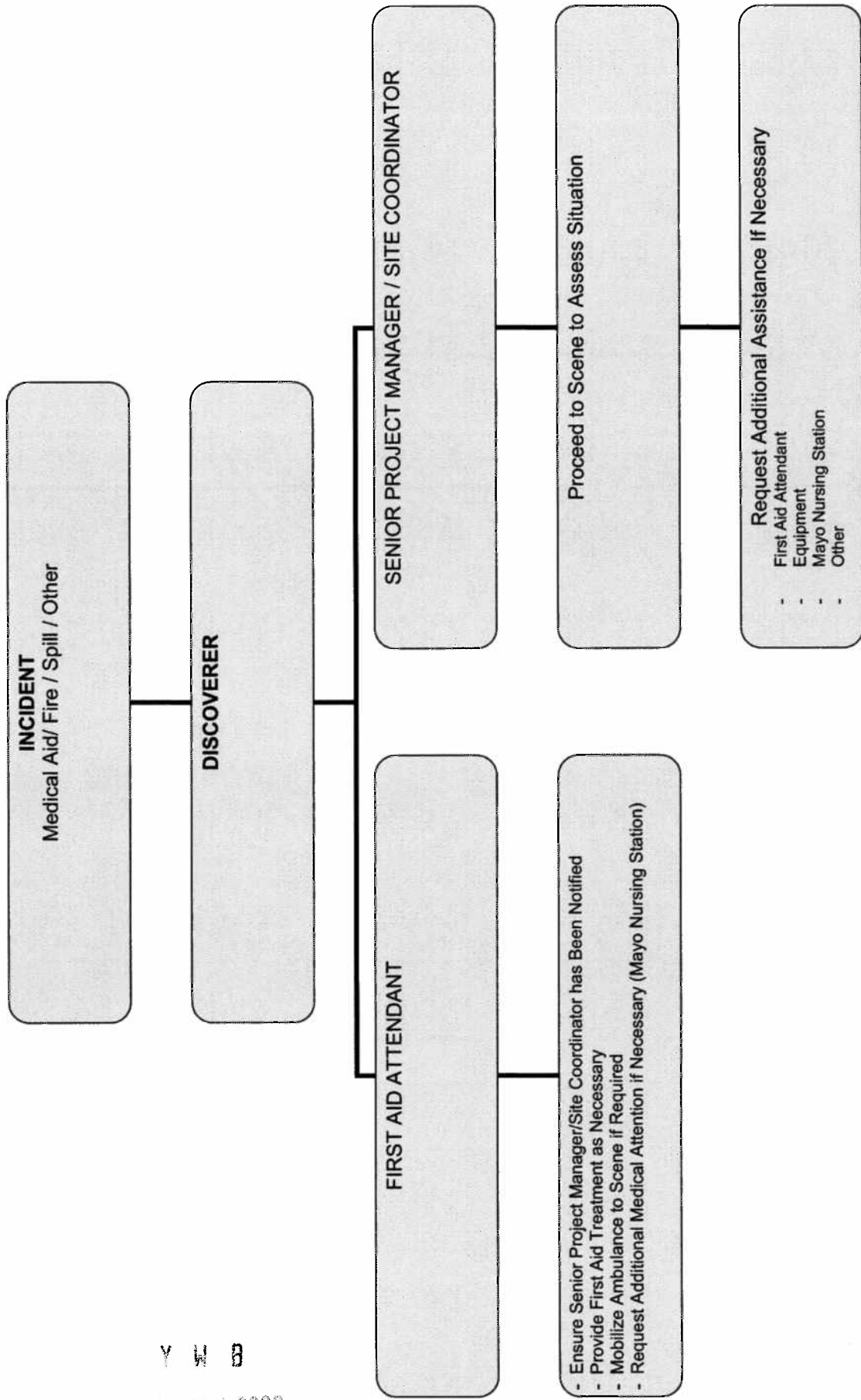
Yukon Workers' Compensation Health and Safety Board. Department of Justice, Government of the Yukon. 1992

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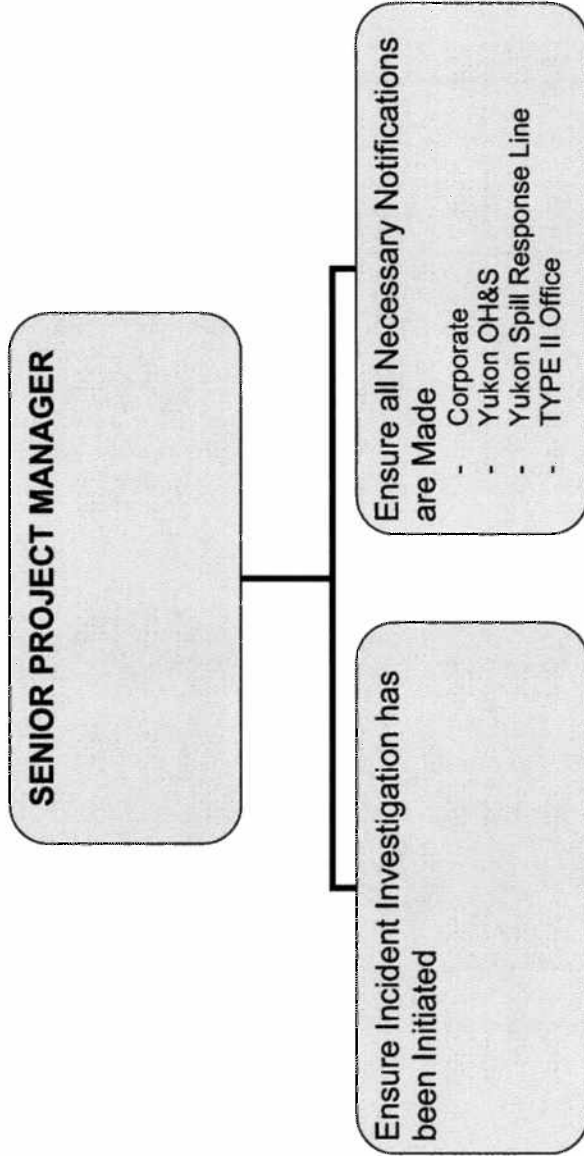
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3.0 INITIAL RESPONSE TO SERIOUS INCIDENT - UNITED KENO HILL MINES



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4.0 FOLLOW-UP TO SERIOUS INCIDENT



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5.0 RESPONSIBILITY MATRIX

POSITION	RESPONSIBILITIES
Area Supervisor or Site Coordinator	<ul style="list-style-type: none"> • Coordinate initial response • E.R.T. and specialized resources mobilization & consultation • Attend and coordinate response for all incidents involving “serious injury” and “serious accident”, as defined in Sec. 33, OHS Act • Initial scene loss control • Prime responsibility for investigation – determine contributing causes and take immediate action to prevent recurrence • Request additional external resources when necessary • Coordinate recovery and investigative activity • Make necessary notifications to Project Manager • Ensure government spill reporting has been completed by designated personnel • Organize and conduct post-incident debriefings • Prepare Incident Report and make recommendations
First Aid Attendant	<ul style="list-style-type: none"> • Ensure area supervisor has been notified of incident • Provide first aid treatment if necessary • Mobilize ambulance to scene, if required • Stand by to assist as required by scene coordinator
Project Manager	<ul style="list-style-type: none"> • Designate on-call senior personnel during weekends • Receive briefings on incident details • Provide direction as required • Make appropriate notifications to government and corporate • Review Incident Reports • Attend at all incidents involving “serious injury” and “serious accident”, as defined in Sec. 33, OHS Act • Make notifications to regulatory agencies as required • Verify compliance with standards and government regulatory requirements • Forward necessary reports to regulatory agencies • Fire Chief – assume responsibility for fire investigation

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6.0 CONTACTS FOR SITE PERSONNEL

POSITION	OFFICE	MINE RADIO CHANNEL	HOME PHONE
Senior Project Manager	604-630-4969		867-993-5911
Site Coordinator	604-630-4969		867-393-4854
Exploration Manager	604-630-4969		604-980-6119
Chief Operating Officer	604-633-4888		604-250-6501
Chief Executive Officer	604-633-4888		604-250-3293
Access Consulting Group	867-668-6463		867-668-7964

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7.0 EXTERNAL RESOURCE CONTACTS

Occasionally, a serious incident may require assistance from other outside organizations. With the exception of medical aid incidents, requests for outside assistance will be authorized only by the Senior Project Manager, or those with higher level of responsibility.

ASSISTANCE REQUIRED FOR:	CONTACT	PHONE
Ambulance / Air Medivac	Mayo Nursing Station	867-996-4444
Poisonous Substance Ingestion	Poison Control Centre	1-867-633-8477
Fire (building) / Rescue Assistance	Mayo Fire Department	867-996-2222
Forest Fire		1-888-798-FIRE
Spill	Yukon Spill Report Line	1-867-667-7244
Wildlife Management	YTG Renewable Resources – Mayo	867-996-2162
Crime – Related Incidents	RCMP – Mayo	867-996-5555
Fatality	Coroner or RCMP	867-996-5555

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8.0 REPORTABLE SPILL QUANTITIES

Under federal and territorial regulations, we are required to *immediately* notify the 24-hour Yukon Spill Report line should a spill of reportable quantity occur. The Senior Project Manager, Site Coordinator or Manager On-Call are responsible for reporting spills. Reportable spills do require an Incident Investigation Report to be completed. For the purposes of the water use licence, any quantity of spill is reportable.

This guide will assist in determining what volume of product requires reporting to regulatory agencies. If a spill is deemed to be of reportable quantity, the area supervisor will immediately notify the Site Coordinator or Senior Project Manager who will in turn ensure that spill reporting is completed by designated personnel.

HAZARD Class	TYPICAL PRODUCTS ON SITE	REPORTABLE QUANTITY
Explosives (1)	<ul style="list-style-type: none"> ANFO 	Any amount spilled outside of blast pattern
Flammable Gases (2.1)	<ul style="list-style-type: none"> Propane Acetylene 	>100 Litres
Non-Flammable Gases (2.2)	<ul style="list-style-type: none"> Halon 	>100 Litres
Poisonous Gases (2.3)		Any Amount
Non-poisonous Gases (2.3)		>100 Litres
Corrosive Gases (2.4)		Any Amount
Non-corrosive Gases (2.2)		>100 Litres
Flammable Liquids (3.)	<ul style="list-style-type: none"> Diesel Gasoline Glycol Hydraulic &/or Engine Oil 	>200 Litres
Flammable Solids (4.)		>25 kg
Spontaneous Combustibles (4.)		>25 kg
Dangerous When Wet (4.)		>25 kg
Oxidizers (5.1)	<ul style="list-style-type: none"> Sodium Hydroxide / Caustic Soda Lime Solution Sodium Nitrate Calcium Hypochlorite Ammonium Nitrate 	>50 kg or 50 Litres
Corrosive Materials (8.)	<ul style="list-style-type: none"> Hydrochloric / Muriatic / Chlorhydric Acid Sodium Hydroxide 	>5 kg or 5 Litres
Miscellaneous Dangerous Goods (9.1)		>50 kg
Dangerous Waste (9.3)	<ul style="list-style-type: none"> Waste Oil 	>5 kg or 5 Litres

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9.0 SPILL RESPONSE EQUIPMENT RESOURCE LIST

	Location	Contact
Spill Response Kit	<ul style="list-style-type: none">Green Transport Garage	Site Coordinator
Oil- Absorbent Pads	<ul style="list-style-type: none">Green Transport Garage	Site Coordinator
Oil- Absorbent Booms	<ul style="list-style-type: none">Green Transport Garage	Site Coordinator

Any contaminated soils will be removed to the land treatment facility in Mayo.

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