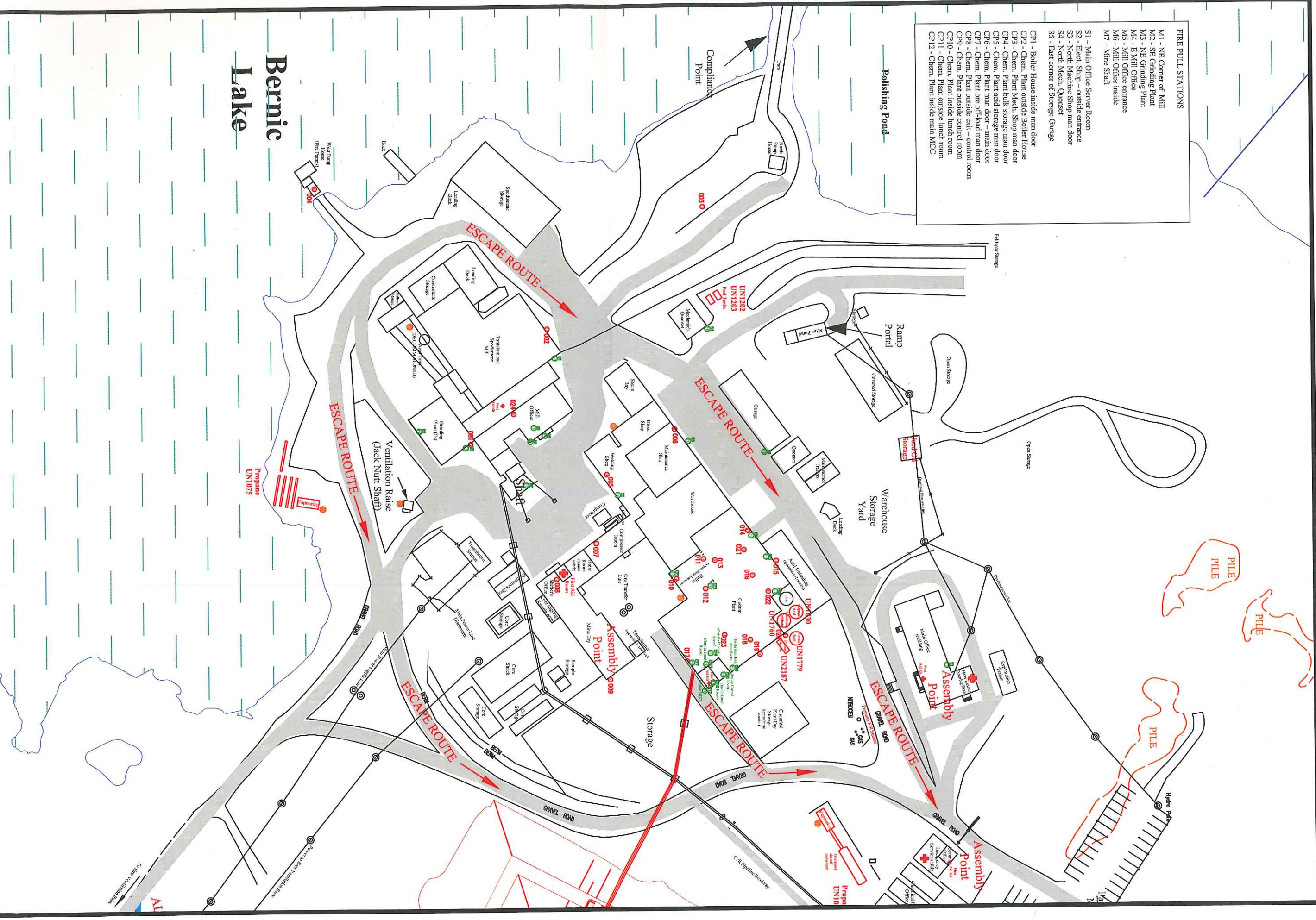


APPENDIX B

EMERGENCY RESPONSE PLAN



- FIRE PULL STATIONS**
- M1 - NE Corner of Mill
 - M2 - SE Grinding Plant
 - M3 - NE Grinding Plant
 - M4 - E Mill Office
 - M5 - Mill Office entrance
 - M6 - Mill Office inside
 - M7 - Mine Shaft
- FIRE PULL STATIONS**
- S1 - Main Office Server Room
 - S2 - Elect. Shop - outside entrance
 - S3 - North Machine Shop man door
 - S4 - North Mech. Quonset
 - S5 - East corner of Storage Garage
- FIRE PULL STATIONS**
- CP1 - Boiler House inside man door
 - CP2 - Chem. Plant outside Boiler House
 - CP3 - Chem. Plant Mech. Shop man door
 - CP4 - Chem. Plant bulk storage man door
 - CP5 - Chem. Plant acid storage man door
 - CP6 - Chem. Plant man door - main door
 - CP7 - Chem. Plant ore off-load man door
 - CP8 - Chem. Plant outside exit - control room
 - CP9 - Chem. Plant outside control room
 - CP10 - Chem. Plant inside lunch room
 - CP11 - Chem. Plant outside lunch room
 - CP12 - Chem. Plant inside main MCC



Bernic Lake

TITLE: SITE EMERGENCY RESPONSE
Map

DRAWN: PGREEN SCALE: 1"=50'
DATE: 2011/01/28 NO: 1
FILE: F:\TANCO Surface Map\Wine Site Location Map (Emergency R

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EMERGENCY RESPONSE PLAN - EVENTS INDEX

Click on the line to navigate to that entry

<u>SPILLS</u>	<u>FIRE</u>	<u>MISCELLANEOUS</u>
<u>EXTERNAL THREATS</u>		

<i>SPILLS</i>	
<u>Spill, Acetic Acid</u>	<u>Spill, Hydrogen Peroxide</u>
<u>Spill, Barium Carbonate</u>	<u>Spill, Lime Slurry</u>
<u>Spill, Barium Hydroxide</u>	<u>Spill, Phosphoric Acid</u>
<u>Spill, Carbon Dioxide</u>	<u>Spill, Potassium Hydroxide</u>
<u>Spill, Cesium Hydroxide</u>	<u>Spill, Sulphuric Acid Tank Failure</u>
<u>Spill, Diesel/Gasoline</u>	<u>Spill, Sulphuric Acid to Ground</u>
<u>Spill, Formic Acid at Truck Unloading</u>	<u>Spill, Sulphuric Acid at Truck Unloading</u>
<u>Spill, Formic Acid from Storage</u>	<u>Propane Leak</u>
<u>Spill, Formic Acid Tank Failure</u>	

<i>FIRE</i>	
<u>Fire, Building</u>	<u>Fire, Server Room</u>
<u>Fire, Forest</u>	<u>Fire, Transfer Station</u>
<u>Fire, Propane Vaporiser</u>	<u>Fire, Transformer</u>

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MISCELLANEOUS

First Aid	Nuclear Device Damage
Incidents Involving Nuclear Devices	CP Waste Solids Line Failure
Main Dam Failure	Main Dam Leak

EXTERNAL THREATS

Bomb Threat	Checklist	Suspicious Powders
Site Isolation		Tornado
Transportation Emergency		

Emergency Event Response Plan

EVENT	
Acetic Acid Spill	
SAFETY ISSUES	
<ul style="list-style-type: none"> • 80% Acetic Acid is a very strong acid. It gives off strong pungent acidic vapours • It will cause severe burns on the skin and eyes. Avoid all contact • Neutralizing an acid with soda ash gives off large quantities of carbon dioxide – ensure adequate ventilation or use SCBA or SABA 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Raingear • Rubber boots • Respirator (SCBA preferred) • Ansell Chemi-pro Gloves • Goggles • Faceshield • Hard hat 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Shovel • Absorball • Soda Ash 	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Barricade off area to ensure no inadvertent access is allowed to the area. • If possible, stop the leak at the source. • Contain the spilled liquid if possible to prevent the spill from spreading. Dike with sand or Absorball • Neutralize the spilled liquid using a surplus of soda ash. • Scoop the neutralized residue and any contaminated gravel into an open topped steel drum. Be sure to collect all the contaminated material • Put the lid on the drum securely and place a label on the drum indicating its contents, and the date filled • Wash the area down to dilute any residues. 	
INTERNAL REPORTING REQUIREMENTS	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Spills to ground of > 5 L are reportable to Manitoba Conservation • Spills from the shipping container of >5 L are reportable to Manitoba Conservation, even if the spill is contained, in the plant area for example (TDG Regs) 	

Emergency Event Response Plan

Barium Carbonate Solid Spill (Major)

EVENT	
Barium Carbonate Solid Spill (Major)	
SAFETY ISSUES	
<ul style="list-style-type: none"> Barium Carbonate dust causes respiratory tract irritation. 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> Hard hat Rubber boots Safety glasses Tyvek Coveralls Gauntlet style rubber gloves Respirator with P100 dust cartridges 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> Shovel Broom New, open top bulk bag 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> Shovel or sweep all spilled solids into a new, open top bulk bag, taking care to minimize any additional debris. Ensure the new bag is marked with the relevant product information. Wash down the residual solids in the affected area into the central sump for transfer to T-9. Add the contents of the bag(s) to the barium carbonate hopper next time barium is mixed. Barium carbonate contaminated with gravel and other debris may be disposed of in the containment cell. 	
INTERNAL REPORTING REQUIREMENTS	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Spills to ground of > 5 kg are reportable to Manitoba Conservation. 	

Emergency Event Response Plan

Barium Hydroxide Solid Spill (Major)

EVENT	
Barium Hydroxide Solid Spill (Major)	
SAFETY ISSUES	
<ul style="list-style-type: none"> • Barium Hydroxide dust causes respiratory tract irritation. • Barium Hydroxide can be absorbed through the eyes. • Skin burns will occur from powder on moist skin 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Hard hat • Tyvek Coveralls • Rubber boots • Gauntlet style rubber gloves • Safety glasses • Full Face Respirator with P100 dust cartridges 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Shovel • Broom • New, open top bulk bag 	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Shovel or sweep all uncontaminated spilled solids into a new, open top bag. Ensure product and lot information is indicated on the new bag, this will enable proper identification for future addition. • Wash down the residual solids in the affected area into the central sump for transfer to T-9. • Barium hydroxide contaminated with gravel and other debris may be disposed of in the containment cell, or placed into open topped drums, labeled, and shipped as hazardous waste. 	
INTERNAL REPORTING REQUIREMENTS	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Spills to ground of > 5 kg are reportable to Manitoba Conservation. 	

Emergency Event Response Plan

EVENT	
Carbon Dioxide Release From Bulk Tank	
SAFETY ISSUES	
<ul style="list-style-type: none"> • Carbon Dioxide is an asphyxiant which could lead to an oxygen deprived environment. • Metal parts may become extremely cold at the point of release due to the expanding gas • Noise from escaping gas will be above the occupational limit 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • SCBA • Leather gloves • Hearing protection 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Barricade tape • Gas detector 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> • No environmental issues related to a CO2 spill. 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Area immediately around and down wind of the leak are to be barricaded off (watch the wind sock) • If leak is severe, area around and down wind of leak are to be evacuated. • If possible, stop the leak at the source by closing discharge valve. Test air quality prior to approaching the valve area to ensure atmosphere has adequate oxygen content. If inadequate air quality, an SCBA must be donned prior to approaching tank. • Once leak is stopped, allow ½ hour for ventilation then test area around and down wind of the leak. When oxygen levels return to normal, barricades can be removed. • If unable to stop leak, contact Praxair to arrange for their service technician to control the leak Praxair Emergency Number: 800-363-0042 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • A spill of >5kg is a process safety event and must be reported to Corporate. 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • A release of >100L or a sustained release of >10 minutes is reportable to Manitoba Conservation, and others. 	

Emergency Event Response Plan

EVENT	
Cesium Hydroxide Bulk Spill (Internal to plant)	
SAFETY ISSUES	
<ul style="list-style-type: none"> Cesium Hydroxide is extremely corrosive and can cause severe skin burns. 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> Hard-hat Rain gear Rubber boots Gauntlet style rubber gloves Safety goggles Face Shield 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> Double diaphragm pump Suction/discharge Fabchem hose Empty totes Water hose Red barricade tape. 	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> Barricade off area to ensure no inadvertent access is allowed to the area. If possible, stop the leak at the source. If leak is due to a breached tank and you are able to transfer the contents of the leaking tank safely to another storage tank, proceed immediately with this action. If unable to transfer to another tank, set up the air pump to draw the spilled cesium hydroxide from the containment sump. Pump spilled product into tote(s). When sump is empty, wash down spillage area with water, pumping the washings to T9 using the area sump pump. Properly identify the totes containing recovered cesium hydroxide for reprocessing at a later time. 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Depending on circumstances, a spill of >5L may be a process safety event and must be reported to Corporate. PSE Definition Link 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Spills to ground and spills from shipping containers of > 5 kg are reportable to Manitoba Conservation. Contained spills from process are not reportable to Manitoba Conservation. 	

Emergency Event Response Plan

EVENT	
Gasoline/Diesel Spill (No Fire)	
SAFETY ISSUES	
<ul style="list-style-type: none"> • Vapour explosion may occur on ignition; vapours form an explosive mixture with air • Vapors may cause dizziness or suffocation. • May be irritating to the eyes, nose, throat, and lungs. 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • SCBA or SABA 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Shovels • Absorbent, sand or dry earth • Empty open topped drums 	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • As an immediate precautionary measure, isolate spill or leak area for at least 50 meters in all directions. • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). • All equipment used when handling the product must be grounded. • Do not touch or walk through spilled material. • Stop leak if you can do it without risk. • Prevent entry into waterways, sewers, basements or confined areas. • A vapor suppressing foam may be used to reduce vapors. • Absorb or cover with dry earth, sand or other non-combustible material • Transfer to containers; Use clean non-sparking tools to collect absorbed material. 	
INTERNAL REPORTING REQUIREMENTS	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • A spill >100 litres from the storage tanks are reportable to is reportable to Manitoba Conservation, and others. 	

Emergency Event Response Plan

EVENT	
Formic Acid Spill at Truck Loading	
SAFETY ISSUES	
<ul style="list-style-type: none"> • 85% formic acid is extremely corrosive and will cause serious burns. • Inhalation of mist or vapor will cause burns to the respiratory tract. 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Hard hat • Raingear • Rubber boots • Ansell Chemi-pro Gloves • SCBA 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Wash down hose (Warm condensate) 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> • Formic acid releases pungent acid vapours to the air 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Depending upon the severity of the release, consider site evacuation, including U/G • If possible, stop the leak at source (release tank air pressure, close valves) • Wash down residual spillage with warm water, including all truck parts. • Minor spills to be pumped to T-9. (Neutralize as required with lime slurry or soda ash.) • Major spills to be pumped into clean empty totes (1 full truckload = 17 totes) • Correct cause of leak before continuing to off load. 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • A spill of > 5 liters may be process safety event and must be reported to corporate. PSE Definition Link 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Spills to ground or during truck offloading of > 5 kg are reportable to Manitoba Conservation. Contained spills are not reportable. 	

Emergency Event Response Plan

EVENT	
Major Formic Acid Spill From Storage	
SAFETY ISSUES	
<ul style="list-style-type: none"> • 85% formic acid is extremely corrosive and will cause serious burns. • Inhalation of mist or vapor will cause burns to the respiratory tract. • Neutralisation of acid with soda ash releases carbon dioxide 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Hard hat • Raingear • Rubber boots • Ansell Chemi-pro Gloves • SCBA or airline respirator 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Double diaphragm pump • Suction/discharge Fabchem hose • Wash down hose (Warm condensate) • Bags soda ash 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> • Formic acid releases pungent acid vapours to the air 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Depending upon the severity of the release, consider site evacuation, including U/G • If possible, stop the leak at source. • Secure the area around the release, pay particular attention to the area downwind • Set up an air pump to draw spilled acid from the containment sump. • Set up the pump discharge line to an empty tote. • Pump accumulated acid to the tote. • Spread soda ash over the remaining residual acid. Mix. • Set up air pump discharge line to discharge into the plant sump. • Wash down residual spill with warm water. • Pump diluted washdown liquor to plant sump. • Transfer accumulated liquor in plant sump to T-9 for transfer to containment cell. (Neutralize further with soda ash as required) 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • A spill of > 5 liters may be process safety event and must be reported to corporate. PSE Definition Link 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Spills to ground of > 5 kg are reportable to Manitoba Conservation. Contained spills are not reportable. 	

Emergency Event Response Plan

EVENT	
Formic Acid Storage Tank Failure	
SAFETY ISSUES	
<ul style="list-style-type: none"> • 85% formic acid is extremely corrosive and will cause serious burns. • Inhalation of mist or vapor will cause burns to the respiratory tract. 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Hard hat • Raingear • Rubber boots • Ansell Chemi-pro Gloves • SCBA or airline respirator 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Double diaphragm pump • Suction/discharge Fabchem hose • Empty tank trucks (Trimac Trucking) • Water hose 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> • Spills to ground of > 5 kg are reportable to Manitoba Conservation. 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Evacuate any personnel located down wind of spill. • Contact Trimac Trucking at the depot in Winnipeg and request immediate delivery of 2 stainless steel tank trucks for formic acid service. • Set up the 2" diaphragm pump, with the suction in the containment collection sump located on the northwest side of the tank, to discharge into the tank truck. • Pump the accumulated 85% acid to the tank truck. • Wash down the residual spillage with warm water. • Set up the 2" air diaphragm pump to discharge into the central plant sump. • Pump the accumulated diluted acid to the central plant sump while continuing to wash down the spill area with warm water. • Pump the accumulated acid in the plant sump to T-9, neutralizing as necessary with lime slurry. 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • A spill of > 5 L is a process safety event, and must be reported to Corporate. 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Spills to ground of > 5 kg (3 L) are reportable to Manitoba Conservation. Contained spills are not reportable. 	

Emergency Event Response Plan

EVENT	
Hydrogen Peroxide Spill (35% & 50%)	
SAFETY ISSUES	
<ul style="list-style-type: none"> Hydrogen Peroxide decomposes into water and oxygen, sometimes rapidly, leading to oxygen enrichment of the air. Open flames and smoking are prohibited. Contamination of hydrogen peroxide, particularly with calcium or iron, increases the decomposition rate significantly. Spilled hydrogen peroxide on clothing and other combustible materials may ignite spontaneously in time, often hours later. Remove any residual peroxide with lots of water. Never enclose hydrogen peroxide that is potentially contaminated in a sealed container. Pressure build up will cause the container to rupture. Never return peroxide to its original container. 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> Raingear Rubber boots Ansell Chemi-pro Gloves Goggles Faceshield Hard hat 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> Shovel Absorball 	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> Barricade off area to ensure no inadvertent access is allowed to the area. If possible, stop the leak at the source. Contain the spilled peroxide if possible to prevent the spill from spreading Ensure that organic materials (wood pallets for example) are kept away from the spill, and decontaminated with water if necessary. Allow the spilled peroxide to decompose naturally. Establish a “fire watch” armed with water to monitor the spill, until the spilled material is completely decomposed. 	
INTERNAL REPORTING REQUIREMENTS	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Spills to ground of > 1 L are reportable to Manitoba Conservation Contained spills of 1 – 50 L are not reportable to Manitoba Conservation Spills from the shipping container of >50 L are reportable to Manitoba Conservation, even if the spill is contained, in the plant area for example (TDG Regs) 	

Emergency Event Response Plan

EVENT	
Lime Slurry Spill	
SAFETY ISSUES	
<ul style="list-style-type: none"> Lime Slurry is extremely corrosive and can cause severe skin burns. 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> Hard-hat Rain gear Rubber boots Ansell Chemi-pro Gloves Safety goggles Face Shield 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> Water hose 	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> Where possible, identify the source of the leak and if safe to do so, immediately stop the leak by any means available. (shut off pump, close valves, etc.) Secure the area around the release to restrict access Wash down the residual spillage with water into the central plant sump. Pump the accumulated lime slurry in the plant sump to T-9 for transfer to the containment cell. (some pH adjustment may be required) 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> A spill of > 5 liters may be process safety event and must be reported to corporate. PSE Definition Link 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Contained spills are not reportable to Manitoba Conservation. 	

Emergency Event Response Plan

EVENT	
Phosphoric Acid Spill	
SAFETY ISSUES	
<ul style="list-style-type: none"> • 75% Phosphoric Acid is a very strong acid • It will cause severe burns on the skin and eyes. Avoid all contact • Neutralizing an acid with soda ash gives off large quantities of carbon dioxide – ensure adequate ventilation or use SCBA or SABA 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Raingear • Rubber boots • Ansell Chemi-pro Gloves • Goggles • Faceshield • Hard hat 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Shovel • Absorball • Soda Ash 	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Barricade off area to ensure no inadvertent access is allowed to the area. • If possible, stop the leak at the source. • Contain the spilled liquid if possible to prevent the spill from spreading. Dike with sand or Absorball • Neutralize the spilled liquid using a surplus of soda ash. • Scoop the neutralized residue and any contaminated gravel into an open topped steel drum. Be sure to collect all the contaminated material • Put the lid on the drum securely and place a label on the drum indicating its contents, and the date filled • Wash the area down to dilute any residues. 	
INTERNAL REPORTING REQUIREMENTS	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Spills to ground of > 5 L are reportable to Manitoba Conservation • Spills from the shipping container of >5 L are reportable to Manitoba Conservation, even if the spill is contained, in the plant area for example (TDG Regs) 	

Emergency Event Response Plan

EVENT	
<p>Potassium Hydroxide Spill (aka Caustic Potash, KOH) Sodium Hydroxide Spill (aka Caustic Soda, Optisperse ADJ 5050)</p>	
SAFETY ISSUES	
<ul style="list-style-type: none"> • 45% Potassium Hydroxide is a very strong alkali (caustic). • It will cause severe burns on the skin and eyes. Avoid all contact 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Raingear • Rubber boots • Ansell Chemi-pro Gloves • Goggles • Faceshield • Hard hat 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Shovel • Absorbball • Soda Ash 	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Barricade off area to ensure no inadvertent access is allowed to the area. • If possible, stop the leak at the source. • Contain the spilled liquid if possible to prevent the spill from spreading • Absorb the spilled liquid using Absorbball or soda ash. • Scoop the absorbent and any contaminated gravel into an open topped steel drum. Be sure to collect all the contaminated material • Put the lid on the drum securely and place a label on the drum indicating its contents, and the date filled • Wash the area down to dilute any residues. 	
INTERNAL REPORTING REQUIREMENTS	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Spills to ground of > 5 L are reportable to Manitoba Conservation • Spills from the shipping container of >5 L are reportable to Manitoba Conservation, even if the spill is contained, in the plant area for example (TDG Regs) 	

Emergency Event Response Plan

EVENT	
Sulfuric Acid Storage Tank Failure	
SAFETY ISSUES	
<ul style="list-style-type: none"> 93% sulfuric acid is extremely corrosive and will cause serious burns. Dilution of strong acid with water releases lots of heat – spattering will occur. Neutralization of acid with any carbonate (e.g. soda ash) will release carbon dioxide gas, which will locally deplete oxygen levels in the air – SCBA required 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> Hard-hat Raingear Rubber Boots Gauntlet Style Rubber Gloves Goggles Face Shield 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> Double diaphragm pump Suction/discharge Fabchem hose Empty tank trucks (Border Chemical) Bags soda ash (as required) Water hose 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> Spills to ground of > 5 kg are reportable to Manitoba Conservation 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> Contact Border Chemicals in Winnipeg to request delivery of two empty tank trucks. Set up 2” diaphragm pump with suction hose in the containment collection sump and discharge into the tank truck. Pump accumulated acid to the tank truck. When area is drained, stop pump and wash down area with water. NOTE: Dilution of sulfuric acid with water releases heat and some liquid spattering will occur. Move the 2” diaphragm discharge line to pump to the plant sump. Pump down wash down liquid to plant sump. (Continue to wash down spill area with warm water.) Pump diluted acid/water mixture to T9. Monitor pH and dilute as required with lime slurry. 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> A spill of > 5 L is a process safety event, and must be reported to Corporate 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Spills to ground of > 5 kg (3 L) are reportable to Manitoba Conservation. Contained spills are not reportable 	

Emergency Event Response Plan

EVENT	
Sulfuric Acid Spill To Ground	
SAFETY ISSUES	
<ul style="list-style-type: none"> 93% sulfuric acid is extremely corrosive and will cause serious burns. Dilution of strong acid with water releases lots of heat – spattering will occur. Neutralization of acid with any carbonate (e.g. soda ash) will release carbon dioxide gas, which will locally deplete oxygen levels in the air – SCBA required 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> Hard hat Raingear Rubber boots 	<ul style="list-style-type: none"> Rubber gloves Goggles Face shield
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> Double diaphragm pump Suction/discharge Fabchem hose Empty container(s) 	<ul style="list-style-type: none"> Bags soda ash (as required) Shovel
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> Spills to ground of > 5 kg are reportable to Manitoba Conservation 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> Identify and stop source of leak where possible. (Shut off pump, close valves etc) Contain spill using any means possible. (soil, sand, dam, Earthen Dam, etc.) Set up 2” double diaphragm pump to pump from the collection area to an appropriate container or location. Neutralize residual acid with liberal quantities of soda ash. Shovel up contaminated ground until pH of the remaining soil in the area is between pH 2.5 to 10.5. Dispose of contaminated soil to the active chemical plant cell. 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> A spill of > 5 L is a process safety event, and must be reported to Corporate 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Spills to ground of > 5 kg (3 L) are reportable to Manitoba Conservation. Contained spills are not reportable 	

Emergency Event Response Plan

EVENT	
Sulphuric Acid Spill at Truck Unloading	
SAFETY ISSUES	
<ul style="list-style-type: none"> • 93% sulphuric acid is extremely corrosive and will cause serious burns. • Dilution of strong acid with water releases lots of heat – spattering will occur. • Neutralisation of acid with any carbonate (e.g. soda ash) will release carbon dioxide gas, which will locally deplete oxygen levels in the air – SCBA required 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Hard hat • Raingear • Rubber boots • Rubber gloves • Goggles • Face shield • SCBA (as required) 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Double diaphragm pump • Suction/discharge Fabchem hose • Empty tank trucks (Border Chemical) • Bags soda ash (as required) • Water hose 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> • Spills to ground of > 5 kg are reportable to Manitoba Conservation 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • If possible stop the leak at source • Call Border Chemical to activate their emergency response team and arrange for a supply of tank trucks (use totes for smaller leaks) • Set up the air pump to draw spilled acid from the containment sump • Place empty tank truck in the truck unloading station • Pump the spilled acid into the truck • When sump is empty, place the pump discharge hose to the plant sump • Wash down the acid containment area with water, pumping the washings to the plant sump, then to T-9 • Test the washings with litmus paper, to ensure that all acid is removed • Tank trucks containing the recovered acid may be disposed of by (Border??) 	<p>Shift Supervisor</p>
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • A spill of > 5 L is a process safety event, and must be reported to Corporate 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Spills to ground of > 5 kg (3 L) are reportable to Manitoba Conservation. Contained spills are not reportable 	

Emergency Event Response Plan

EVENT	
Propane Leak	
SAFETY ISSUES	
<ul style="list-style-type: none"> Propane gas is highly flammable and explosive (Explosive range 2.4% – 9.5%) Propane liquid can cause severe freeze burn if contacted by skin. Propane is an asphyxiant - it will cause oxygen depletion 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> SCBA 	
EQUIPMENT REQUIREMENTS	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> See attached response sheet Stop the leak at the source, if this can be done without risk If unable to stop the leak, request Security to call 9-1-1 Evacuate spill or leak area immediately, upwind and out of the vapour for at least 100 m in all directions, 800 m if the spill or leak is large Do not touch or walk through spilled liquids Eliminate all possible sources of ignition, including those that do not normally pose a risk. (Propane may travel long distances along the ground and flashback to the source, it will accumulate in low lying areas) 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Any uncontrolled release of an explosive gas is considered a process safety event and is reportable to Corporate. Link to PSE Definition 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Release of >100L propane is reportable to Manitoba Conservation. A sustained release of > 10 minutes during the unloading process is reportable to Manitoba Conservation (TDG) 	

Criteria	Response
<p>LEVEL 0</p> <ul style="list-style-type: none"> • Small propane gas or liquid leak can be isolated by closing block valves • Injury potential is very low • Fire potential is very low 	<ul style="list-style-type: none"> • Note the wind direction and force • Close the storage tank isolation valves located under the tanks, if necessary and if safe to do so • Close other system valves as necessary to reduce or stop the gas release • Ensure that all sources of ignition are eliminated • Isolate the area immediately surrounding the leak for at least 100 meters, until gas is dispersed. Downwind gas concentration should be <10% LEL • Ventilate buildings as necessary • Call Site Supervisor
<p>LEVEL 1</p> <ul style="list-style-type: none"> • Significant propane gas or liquid leak can be isolated by closing block valves • Injury potential is low, but possible • Fire potential is low, but possible 	<ul style="list-style-type: none"> • Sound the emergency evacuation alarm • Note the wind direction and force • Close the storage tank isolation valves located under the tanks, if safe to do so • Close other system valves as necessary to reduce or stop the gas release • Isolate the area immediately surrounding the leak for at least 100 meters • Ensure that all sources of ignition are eliminated • Ventilate buildings as necessary • Call Superior Propane (204-488-4499 or 877-873-7467)
<p>LEVEL 2</p> <ul style="list-style-type: none"> • Significant propane gas or liquid leak can be isolated by closing block valves • Injury potential is significant • There is a fire or the fire potential is high 	<ul style="list-style-type: none"> • Sound emergency evacuation alarm • Note the wind direction and force • Close the storage tank isolation valves located under the tanks, if safe to do so • Close other system valves as necessary to reduce gas release • Isolate the area immediately surrounding the leak for at least 100 meters • Ensure that all sources of ignition are eliminated for at least 100 meters • Evacuate downwind at least 800 meters • Set up fire hose systems to control small fires if safe to do so (do not use Wajax pumps as they are a potential source of ignition) • Ventilate buildings as necessary • Call Bird River Fire Department (9-1-1) • Call Superior Propane (877-873-7467 or 204-488-4499). Request activation of the LPGERC response team if required
<p>LEVEL 3</p> <ul style="list-style-type: none"> • Propane gas or liquid leak cannot be isolated by closing block valves • There is damage to the storage tank • Injury potential is significant • There is a fire or the fire potential is high 	<ul style="list-style-type: none"> • Sound emergency evacuation alarm • Note the wind direction and force • (Pull the emergency cords to close the tank isolation valves) • Close other system valves as necessary to reduce gas release if safe to do so • Isolate the area immediately surrounding the tanks • Evacuate the area as follows: <ul style="list-style-type: none"> • 800 meters downwind for a large spill • 1600 meters in all directions for a tank involved in a fire • Ensure that all sources of ignition are eliminated • Set up fire hose systems to control small fires if safe to do so (do not use Wajax pumps as they are a potential source of ignition) • Ventilate buildings as necessary • Call Bird River Fire Department (9-1-1) • Call Superior Propane (877-873-7467 or 204-488-4499). Request activation of the LPGERC response team.

Emergency Event Response Plan

EVENT	
Building Fire (Main Office, Security, Warehouse, Dry, Maintenance Shops)	
SAFETY ISSUES	
<ul style="list-style-type: none"> • Burns • Smoke inhalation 	
PPE REQUIREMENTS	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Fire extinguishers, water hose, nozzles 	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<p>Assess the fire situation – if the fire is still in its incipient stage, attempt to extinguish using available extinguishers.</p> <p>Call 9-1-1 (Bird River Fire Department)</p> <p>Alert the Emergency Response Team through Security (259)</p> <p>Evacuate surrounding area, set up a control perimeter around the building</p> <p>Set up fire hose from a hydrant if safe to do so, aim to control the fire from a distance and prevent it from spreading</p> <p>Do NOT enter any burning building</p> <p>Direct/assist the Fire Department when they arrive.</p>	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Corporate 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Mines Inspector 	

Emergency Event Response Plan

Forest Fire

EVENT	
Forest Fire	
SAFETY ISSUES	
<ul style="list-style-type: none"> • Smoke inhalation • Burns 	
PPE REQUIREMENTS	
None	
EQUIPMENT REQUIREMENTS	
Vehicles for personnel	
ENVIRONMENTAL ISSUES	
None	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<p>If a forest fire is known to be close to the minesite, or threatens to close PTH 313 or 315, maintain communication with Manitoba Conservation regarding voluntary and mandatory evacuation orders.</p> <p>Shut down and secure as much of the operation as possible – boiler; reduce steam pressure.</p> <p>Consider dumping R-1 (digester) contents, depending on the status and condition of T-4</p> <p>Isolate storage tanks – propane, sulphuric acid, formic acid, alum, carbon dioxide</p> <p>If smoke is being drawn into the mine ventilation system, evacuate the mine and shut down the vent fans</p> <p>If the forest fire is tracking towards the minesite, evacuate all employees as instructed by Manitoba Conservation.</p> <p>NOTE: The mine ramp may be used as a temporary shelter, with the vent fans off to prevent smoke entering the mine.</p> <p>Note: Do not leave the evacuation order too long – forest fire may move rapidly depending on wind speed and direction, or sever the road link.</p>	Shift Supervisor
INTERNAL REPORTING REQUIREMENTS	
Corporate	
EXTERNAL REPORTING REQUIREMENTS	

Forest Fire

Emergency Event Response Plan

EVENT	
Propane Vaporiser Fire	
SAFETY ISSUES	
<ul style="list-style-type: none"> Burns from burning gas 	
PPE REQUIREMENTS	
EQUIPMENT REQUIREMENTS	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<p>The aim of any response to a propane fire is to cut off the fuel supply. Extinguishing the flame will cause a greater problem if the released gas explosively reignites</p> <p>Pull the emergency shut off pull-cord to close the valve at the outlet from the propane storage tank(s)</p> <p>Close the tank bottom outlet valves</p> <p>Close other system isolation valves as necessary</p>	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Corporate 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Mines Inspector 	

Emergency Event Response Plan

EVENT	
Server Room Fire	
SAFETY ISSUES	
Novec 1230 Fire suppression fluid does not support life. SCBA must be worn when entering the server room after the fire suppression system has been activated, or if there is a suspected release of gas	
PPE REQUIREMENTS	
SCBA	
EQUIPMENT REQUIREMENTS	
None	
ENVIRONMENTAL ISSUES	
None – Novec 1230 is claimed to be environmentally friendly	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<p>Note: A fire pull station is located just inside the door</p> <p>None: the fire suppression system in the server room will activate automatically when smoke is detected in the room. A light and audible alarm outside the room will indicate system activation</p> <p>Call 9-1-1 to ensure assistance in the event that the fire suppression system is not 100% successful</p>	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Corporate 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> Mines Inspector 	

Emergency Event Response Plan

EVENT	
Transfer Station (Garbage Dump) Fire	
SAFETY ISSUES	
<ul style="list-style-type: none"> • Heat and smoke from burning materials – remain upwind 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Turn out gear, boots, gloves • SCBA 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Wajax Pump • Fire Hoses & nozzles • Totes full with water • Berms or booms to contain run-off water 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> • Fire water run off may contain harmful organics 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Activate the ER Team (Dial 259 - Security) • Request Security to call the Fire Department (9-1-1) 	Security
<ul style="list-style-type: none"> • ER Team to assemble • Fill totes with water (unless local water supply is available) • Set up Wajax pumps and fire hoses • Deliver water from totes to the burning materials • Brief Fire Department on arrival 	ER Team
<ul style="list-style-type: none"> • Ensure fire does not spread to the surrounding trees 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Corporate 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Mines Inspector 	

Emergency Event Response Plan

EVENT	
Transformer Fire	
SAFETY ISSUES	
<ul style="list-style-type: none"> • Burns from burning transformer oil • Smoke Inhalation 	
PPE REQUIREMENTS	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • CO₂ fire extinguisher • Berms and/or booms to control run off water 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> • Run off fire water will contain transformer oil and foaming agent. This run off must not enter Bernic Lake 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
1. Call Fire Department (9-1-1)	Security (259)
2. Ensure employees are at a safe distance	Tanco
3. Isolate transformer from the incoming electricity supply	
4. Isolate transformer from downstream electrical feeds	
5. Attempt to extinguish fire ONLY if the fire is very small, and can be put out using a CO ₂ fire extinguisher	
6. Use foam to extinguish oil fire	Fire Department
7. Contain fire water run off for collection and treatment	Tanco
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Corporate 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Mines Inspector 	

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FIRST AID

ALL EMPLOYEE RESPONSE:

- Assess the extent of the injuries and provide initial first aid.

- **Call for assistance:
Call Security at '259' or by radio on channel 1**

- If possible, assist the injured person to the first aid room.
- If the injured person is not able to be moved, support the person with available resources until help arrives

SECURITY

- On receiving the emergency call, take all pertinent details, including the exact location of the injured person.
- Page the First Aid Co-ordinator, Monday – Friday, 08:00-16:00.
At all other times, contact the Site Shift Supervisor (Ext. 234 or radio channel 3)
- Transmit the necessary details of the injuries.

FIRST AID CO-ORDINATOR

- On hearing the pager, immediately call Security (259) to gather the pertinent details

FIRST RESPONDER:

- Provide necessary first aid to support the injured person, moving the injured person to a safe location if required.
- If the nature and seriousness of the injuries dictate, make arrangements for the injured person to be transported to hospital, by private vehicle, ambulance or air ambulance
Ensure that the hospital is properly notified, and that appropriate forms are transmitted with the patient.
- Ensure that details of the injuries are entered in the first aid book
- For serious injuries ensure that proper notifications are made.

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- For a fatality, do not touch or move objects; **immediately** secure the site of an accident pending investigation
Note: First Aid attendants must ensure their own safety, and may move a potentially fatally injured person to a safe location if there is any possibility that the injured person may be successfully treated.

INJURY REPORTING

ALL injuries (no matter how minor) shall be immediately reported to a Supervisor or Lead Hand and entered into the first aid book. In addition the Workers Compensation Board “Notice of Injury” form shall be completed and sent to the Department Superintendent.

Notification of any serious bodily injury shall be made immediately (within one hour) to:

- The relevant Department Superintendent, and
- The Chemical Plant Manager (for cesium plant personnel), and
- The General Manager
- The Safety/Environmental Manager

The senior manager notified above shall report immediately to:

- The Mines Inspector
- The Workplace Health & Safety Committee

If the senior manager above cannot be contacted, the Mill Shift Supervisor shall make this call.

Serious body injury is defined as:

- A fracture of the skull, spine, pelvis, femur (upper leg), humerus (upper arm), fibula or tibia (lower leg), radius or ulna (lower arm)
- Amputation of the major part of a hand or foot
- The loss of sight in an eye
- A serious internal hemorrhage
- An injury caused directly or indirectly by explosives
- Extensive second or third degree burns
- Any other injury likely to endanger life or cause permanent disability

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CORPORATE INJURY REPORTING

Serious injuries as defined above must be reported immediately to:

- Corporate V.P. SH&E (Boston)

Fatalities or occupational injuries requiring hospitalisation of one or more employees, contractors or third parties must be reported as soon as possible, and within 24 hours of occurrence to:

- Executive V.P Global Manufacturing (Boston)

Emergency Event Response Plan

EVENT	
Nuclear Density Device Damage	
SAFETY ISSUES	
<ul style="list-style-type: none"> • A damaged device has the potential to leak radiation into the surrounding area. 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • None 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • Flagging tape (red) • Barricade tags 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> • None 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Person discovering damaged device will evacuate area and post a guard. • A safe zone of 5 meters in all directions must be established using flagging tape, marked with barricade tags. • All persons affected must be identified. • Contact site shift supervisor who in turn contacts the radiation safety officer. • RSO to contact Canadian Nuclear Safety Commission to arrange for cleanup and/or inspection. • Control the area until a licensed removal company has given the green light. 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Any loss of radiation containment must be reported to Corporate. 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Canadian Nuclear Safety Commission 24 hr 1-613-995-1479 	

Emergency Event Response Plan

EVENT	
Waste Solids Line Failure	
SAFETY ISSUES	
<ul style="list-style-type: none"> • Potential of high or low pH material leaking from line could cause minor skin or eye irritation. 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> • Standard PPE 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> • front end loader • shovels • truck, with dumping capabilities 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> • Cesium content of waste stream may elevate levels in the tailings management area. 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Have operations shut off the waste solids pump. • Collect spilled waste material using front end loader and shovels as necessary. (Larger spills will require a truck to minimize number of trips with the loader. • Dispose of contaminated material in active waste cell. 	
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • A spill of > 5 kg is a process safety event and must be reported to Corporate. 	
EXTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • 	

Emergency Event Response Plan

EVENT	
Main Dam Major Failure	
SAFETY ISSUES	
•	
PPE REQUIREMENTS	
• Basic PPE • •	
EQUIPMENT REQUIREMENTS	
Backhoe	Quarried rock (minus 6")
Dump Truck	Sand
	Clay
	Pit Run (minus 4")
ENVIRONMENTAL ISSUES	
Silt and fine particles from the main dam may be carried through the polishing pond to the West Discharge, and into Bernic Lake (potentially causing damage to fish habitat)	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
• Reduce water flow into the TMA as much as possible, by shutting down Mill operations and Mine dewatering pumps if possible.	Shift Supervisor
• Stop the flow of water out of the west discharge by plugging the culvert	Shift Supervisor
• Call Don Sikora Contracting, and request immediate mobilisation of heavy equipment	Shift Supervisor
• Infill the damaged section of the main dam with truckloads of quarried rock	Sikora Contracting
• When the damaged section is made up, add sand to backfill the spaces, until water flow is stopped	Sikora Contracting
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Facility General Manager • SH&E Manager • Regional Manufacturing Director EMEA • Director, NA SH&E 	
EXTERNAL REPORTING REQUIREMENTS	
<p>Written report to be submitted within 30 days of the event to: Regional Director, Environmental Enforcement Division, Prairie & Northern, Environment Canada (Ref: SOR/2002-222 Metal Mining Effluent Regulations Section 31 – Reporting)</p> <p>NOTE: This is only required if deleterious substances (eg heavy silt deposit) are actually discharged from the West Discharge</p>	

Emergency Event Response Plan

EVENT	
Main Dam Leakage	
SAFETY ISSUES	
•	
PPE REQUIREMENTS	
• Basic PPE •	
EQUIPMENT REQUIREMENTS	
Backhoe	Quarried rock (minus 6")
Dump Truck	Sand
	Clay
	Pit Run (minus 4")
ENVIRONMENTAL ISSUES	
Silt and fine particles from the main dam may be carried through the polishing pond to the West Discharge, and into Bernic Lake (potentially causing damage to fish habitat)	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> • Call Don Sikora Contracting, and request mobilisation of heavy equipment • Attempt to identify the source of the leak – look for whirlpools and eddies in the water that indicate unusual water flows • Deposit clay fill on the upstream side of the dam at the leak site, until leak is plugged 	Surface Superintendent Sikora Contracting Sikora Contracting
INTERNAL REPORTING REQUIREMENTS	
<ul style="list-style-type: none"> • Facility General Manager • SH&E Manager 	
EXTERNAL REPORTING REQUIREMENTS	
None: This is only required if deleterious substances (eg heavy silt deposit) are actually discharged from the West Discharge	

Emergency Event Response Plan

Bomb Threat

EVENT	
Bomb Threat	
SAFETY ISSUES	
Potential damage from explosives	
PPE REQUIREMENTS	
None	
EQUIPMENT REQUIREMENTS	
None	
ENVIRONMENTAL ISSUES	
Potential damage from explosives	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
Record all details of the telephone call on the linked document	Employee
Immediately inform the Incident Commander (FGM or Shift Supervisor) of the threat	Employee
Initiate plant shutdown and site evacuation procedures	Incident Commander
Call the RCMP (9-1-1)	Incident Commander
Initiate bomb search procedures	RCMP
INTERNAL REPORTING REQUIREMENTS	
Corporate – Senior Managers	
EXTERNAL REPORTING REQUIREMENTS	

Canadian Bomb Data Centre
Centre canadien de données sur les bombes

Bomb Threat Telephone Procedures
Appels à la bombe



When a bomb threat is received: Si vous recevez un appel à la bombe :

- | | |
|---|---|
| 1 Listen. | 1 Écoutez. |
| 2 Be calm and courteous. | 2 Soyez calme et courtois. |
| 3 Do not interrupt the caller. | 3 N'interrompez pas l'appelant. |
| 4 Obtain as much information as possible. | 4 Tâchez d'obtenir le plus de renseignements possible. |
| 5 Initiate call trace action (if available) while the call is ongoing. | 5 Prenez des mesures de dépistage de l'appel si cela est possible. |
| 6 Using a pre-arranged signal, notify your supervisor while the call is still ongoing. Your supervisor should contact the local police service. | 6 Avisez l'autorité responsable au moyen d'un signal fixé à l'avance pendant que l'appelant est à l'appareil. |
| 7 Complete the form provided below and give it to your supervisor. | 7 Remplissez ce formulaire et remettez-le à votre superviseur. |

Telephone trace number:
Pour dépister l'appel, appelez :

Details to be recorded: Renseignements à consigner :

Date	Time - Heure	Duration of call - Durée de l'appel
	A.M. <input type="checkbox"/> P.M. <input type="checkbox"/>	

Exact wording of the threat: Termes exacts de l'appel :

Questions to ask: Questions à poser :

What time will the bomb explode?
 À quelle heure la bombe doit-elle éclater?

Where is it?
 Où est-elle?

What does it look like?
 À quoi ressemble-t-elle?

Where are you calling from?
 De quel endroit appelez-vous?

Why did you place the bomb?
 Pourquoi a-t-on placé cette bombe?

What is your name?
 Quel est votre nom?

Identifying characteristics: Identification de l'appel :

Sex	<input type="checkbox"/> Male	<input type="checkbox"/> Female	<input type="checkbox"/> Not sure	Estimated age:
Sexe	Homme	Femme	Incertain	Âge approximatif :
Accent	<input type="checkbox"/> English	<input type="checkbox"/> French	<input type="checkbox"/> Other	
	Anglais	Français	Autre	
Voice	<input type="checkbox"/> Loud	<input type="checkbox"/> Soft	<input type="checkbox"/> Other	
Voix	Forte	Douce	Autre	
Speech	<input type="checkbox"/> Fast	<input type="checkbox"/> Slow	<input type="checkbox"/> Other	
Débit	Rapide	Lent	Autre	
Diction	<input type="checkbox"/> Good	<input type="checkbox"/> Nasal	<input type="checkbox"/> Lisp	Other - Autre
Pronunciation	Bonne	Nasillarde	Zézayée	
Manner	<input type="checkbox"/> Emotional	<input type="checkbox"/> Calm	<input type="checkbox"/> Vulgar	Other - Autre
Manières	Nerveuses	Calmes	Vulgaires	

Background noises - Bruits de fond

Voice was familiar (specify)
 La voix est familière (préciser)

Caller was familiar with the area (specify)
 L'appelant semble connaître les lieux (préciser)

Emergency Event Response Plan

Site Isolation

EVENT	
Site Isolation (due to road loss, flood, snowfall, forest fire)	
SAFETY ISSUES	
Undefined - depends on circumstances	
PPE REQUIREMENTS	
EQUIPMENT REQUIREMENTS	
ENVIRONMENTAL ISSUES	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<p>Note: Hydro service unaffected, road access not available.</p> <p>Shut down and secure operations as much as possible – empty tanks in the CP, especially digester and T-4</p> <p>Set up helicopter shuttle service for shift crew relief between the site and:</p> <ul style="list-style-type: none"> (a) Bird River Airport (Tall Timbers) TC ID: CJP7 (b) Trappers (c) Lac du Bonnet Airport ICAO: CYAX <p>In snowfall situation, consider snowmobiles</p> <p>Establish skeleton crew. Prepare to evacuate on short notice if circumstances change</p>	
INTERNAL REPORTING REQUIREMENTS	
Corporate	
EXTERNAL REPORTING REQUIREMENTS	

Emergency Event Response Plan

EVENT	
Transportation Emergency (Cesium Products)	
SAFETY ISSUES	
<ul style="list-style-type: none"> Exposure to cesium product – hydroxide, carbonate, sulphate, formate 	
PPE REQUIREMENTS	
<ul style="list-style-type: none"> Hard hat Goggles Face shield Raingear Ansell Chemi-pro gloves Rubber boots 	
EQUIPMENT REQUIREMENTS	
<ul style="list-style-type: none"> Drum pump with transfer hose Portable generator & gas Empty totes &/or drums Absorbent Shovels Empty open top drums 	
ENVIRONMENTAL ISSUES	
<ul style="list-style-type: none"> Local environmental damage in the immediate area surrounding a spill. 	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
Stabilize any containers that are not secured Stop any further actual or potential leakage of product Contain any spilled product, using Absorbent or any other available material Shovel any contaminated materials into the open top drums, secure and label Transfer any product remaining in the damaged container(s) into new containers using the drum pump	
INTERNAL REPORTING REQUIREMENTS	
EXTERNAL REPORTING REQUIREMENTS	
Carrier must report any incident involving cesium hydroxide to Manitoba Environment (TDG)	

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Emergency Response Plan		
Suspicious Powders		
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GUIDELINES FOR HANDLING SUSPICIOUS POWDER(S)

In an event that a suspicious package/powder(s) is received:

- Do not open it
- Leave it and evacuate the room
- Keep others from entering
- Notify your supervisor

For packages that are opened and which contain suspicious material:

- Do not panic
- Close off the room and do not let anyone enter
- Notify your supervisor
- Do not clean powder up
- Do not touch your eyes, nose or other part of your body
- If possible, wash your hands with soap and water
- If clothing is contaminated, do not brush vigorously
- If possible, close down the building's heating or ventilation system
- Make a list of all people who had actual contact with the powder for investigating authorities

Notification of any suspicious powder(s) must be made to:

- The relevant Department Head
- The Environmental/Safety Manager
- The site General Manager
- Manitoba Conservation – Environment Division

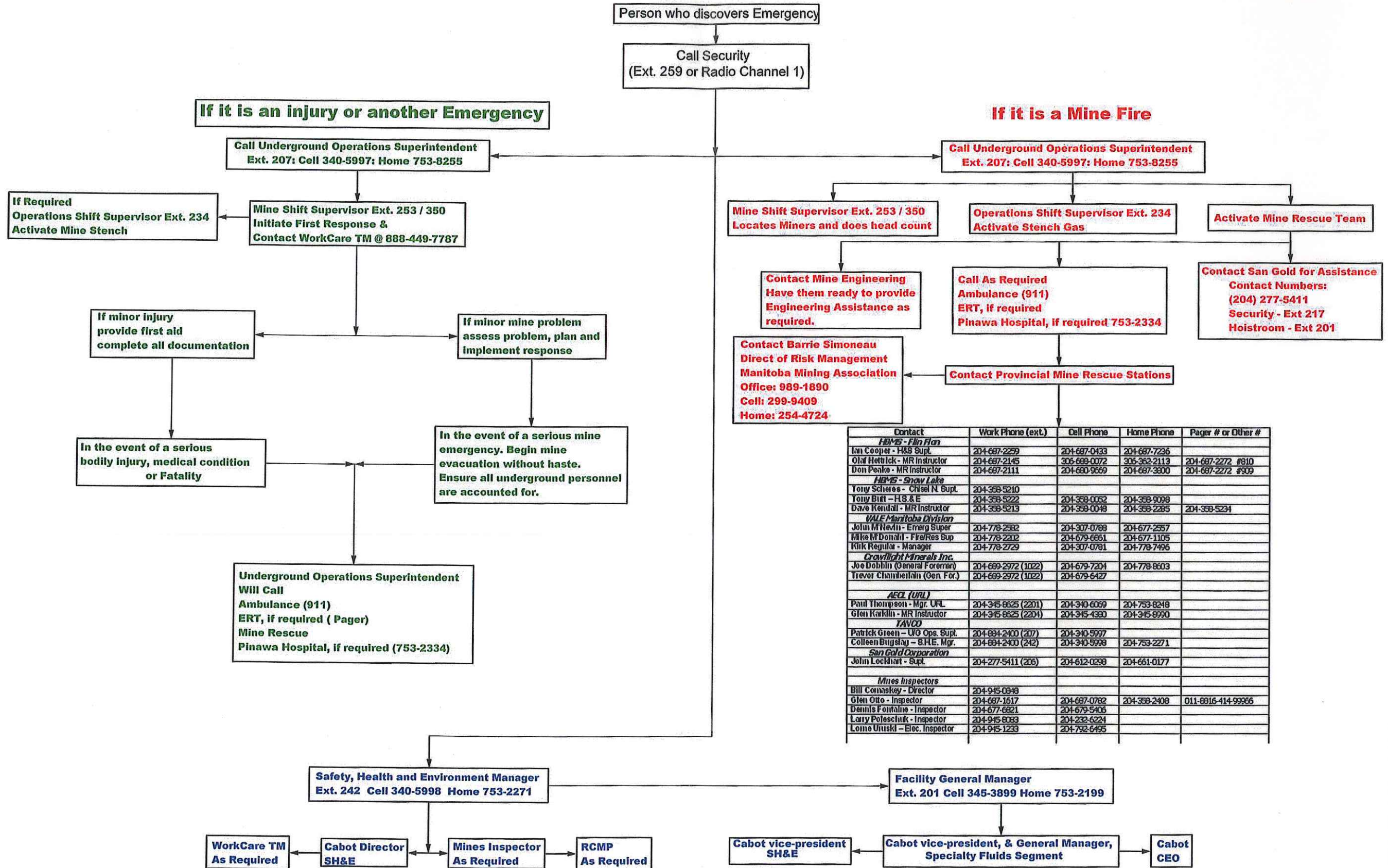
Emergency Event Response Plan

Tornado

EVENT	
Tornado	
SAFETY ISSUES	
Potential for severe injury due to flying debris	
PPE REQUIREMENTS	
None	
EQUIPMENT REQUIREMENTS	
Vehicles for personnel	
ENVIRONMENTAL ISSUES	
Potential Spillage of chemical products and raw materials	
REMEDIAL MEASURES	
ACTION	RESPONSIBILITY
<p>Tornado season in Manitoba is from May to September. They usually occur in the afternoon or early evening, but have been known to occur at night.</p> <p>If a tornado is known or suspected to be in the neighborhood, detail a lookout (Security) to track its movements.</p> <p>Shut down as much of the operation as possible – boiler; reduce steam pressure.</p> <p>Isolate storage tanks – propane, sulphuric acid, formic acid, alum, carbon dioxide</p> <p>If the tornado is set to pass directly through the minesite, evacuate all employees to the mine ramp, and shelter in place until the tornado has passed.</p> <p>Alternative secure locations are under the R-1 digester, and in the 2/4 basement</p> <p>Note: Do not leave the evacuation order too long – tornados may change direction very quickly, and without warning</p>	Shift Supervisor
INTERNAL REPORTING REQUIREMENTS	
Corporate	
EXTERNAL REPORTING REQUIREMENTS	

Tornado

Underground Emergency Response



Contact	Work Phone (ext.)	Cell Phone	Home Phone	Pager # or Other #
HMPS - Flin Flon				
Ian Cooper - H&S Supt.	204-687-2259	204-687-0433	204-687-7296	
Olaf Hettlick - MR Instructor	204-687-2145	305-689-0072	305-362-2113	204-687-2272 #810
Don Peake - MR Instructor	204-687-2111	204-680-9669	204-687-3800	204-687-2272 #909
HMPS - Snow Lake				
Tony Schiers - CH&S N. Supt.	204-358-5210			
Tony Birt - H&S & E	204-358-5222	204-358-0062	204-358-9098	
Dave Kendall - MR Instructor	204-358-5213	204-358-0048	204-358-2285	204-358-5234
VALE Manitoba Division				
John McNeil - Emerg Super	204-778-2382	204-307-0788	204-677-2557	
Mike McDonald - Fire/Res Sup	204-778-2202	204-679-6661	204-677-1105	
Kirk Regulor - Manager	204-778-2729	204-307-0781	204-778-7496	
Crowlight Minerals Inc.				
Joe Dohlin (General Foreman)	204-669-2972 (1022)	204-679-7204	204-778-8603	
Trevor Chamberlain (Gen. For.)	204-669-2972 (1022)	204-679-6427		
AECI (URL)				
Paul Thompson - Mgr. URL	204-345-8625 (2201)	204-340-6069	204-753-8248	
Glen Karlin - MR Instructor	204-345-8625 (2204)	204-345-4380	204-345-8990	
TAVCO				
Patrick Green - U/O Ops. Supt.	204-884-2400 (207)	204-340-5997		
Colleen Bugslay - B.H.E. Mgr.	204-884-2400 (242)	204-340-5998	204-753-2271	
San Gold Corporation				
John Lockhart - Supt.	204-277-5411 (205)	204-612-0298	204-661-0177	
Mines Inspectors				
Bill Coninsky - Director	204-945-0948			
Glen Otto - Inspector	204-687-1617	204-687-0782	204-358-2408	011-8816-414-99966
Dennis Fontaine - Inspector	204-677-6821	204-679-5406		
Larry Poleschuk - Inspector	204-945-8083	204-232-6224		
Lorne Uruski - Elec. Inspector	204-945-1233	204-792-6495		

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4. LOCAL EMERGENCY SERVICES

R.C.M.P.	9-1-1	204-345-8685
FIRE – Bird River	9-1-1	
AMBULANCE	9-1-1	204-753-8888
FOREST FIRE (Manitoba Conservation)	204-345-1418	
HEALTH CENTRE – Lac du Bonnet	204-345-8647	
HOSPITAL – Pinawa	204-753-2334	
HOSPITAL – Pine Falls	204-367-4441	
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5. REGULATORY AGENCIES

BUSINESS

HOME

ENERGY & MINES

Ernie Armitt, Director	204-945-6505	
Doina Priscu, Chief Mine Engineer	204-945-6517	

WORKPLACE HEALTH & SAFETY- Mines Safety Branch

Don Hurst, Assistant Deputy Minister	204-945-3605	
Dennis Fontaine, Acting Director	204-677-6821	
Ted Hewitt, Chief Mining Engineer	204-687-1621	Cell-204-271-1212 Home - 204-687-7450
Ted Hewitt, (General Office)	204-687-1618	
Larry Poleschuk, Provincial Mines Inspector	204-945-8083 Fax-204-948-2209	Cell-204-232-6224
Lorne Uruski - Provincial Electrical Inspector	204-945-1233	
Workplace Health & Safety (Switchboard)	204-945-3446	
General FAX - W.S.&H.	204-948-2209	
W.S.H. Inspector's - Confidential Fax	204-945-4556	
Workplace Safety Emergency (24 hr)	204-945-0581	

MANITOBA CONSERVATION - Environment Division

Environmental Accident (24 hrs)	204-945-4888 FAX: 945-1211
Tracey Braun, Director	204-945-7071
Kris Innes, Environment Officer	204-345-1428
Ryan Coulter, Environmental Engineer	204-945-7023
Scott Davies, Provincial TDG	204-945-6223

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ENVIRONMENT CANADA

Duty Officer	204-981-7111
Zack Branscombe, Enforcement Officer	204-983-8080
Shelly Boss, Regional EEM Coordinator	780-951-8754

FISHERIES & OCEANS (DFO)

Todd Schwartz, Fish Habitat Biologist	204-983-4231
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CANADIAN NUCLEAR SAFETY COMMISSION

24 Hours 613-995-1479

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6. MINE RESCUE BACKUP

BUSINESS

SAN GOLD CORPORATION	204-277-5411	Security – Ext. 217 Hoistroom – Ext.201
DIRECTOR OF RISK MANAGEMENT MANITOBA MINING ASSOCIATION Barrie Simoneau	204-989-1890	Home – 204-254-4724 Cell – 204-299-9409
HUDSON BAY MINING & SMELTING INCO	204-687-2291	
Surface First Aid	204-778-2276	

7. AIR TRANSPORTATION

PROVINCIAL HELICOPTERS LTD.	204-345-8332	
MANITOBA GOVERNMENT AIR SERVICE	1-800-661-5631	
WHITESHELL AIR SERVICE	204-345-8339 OR 204-345-6092	
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8. CONTRACTORS, SUPPLIERS & OTHER

WORKCARE (MEDICAL ADVICE 24/7)	1-888-449-7787
MANITOBA HYDRO - WINNIPEG CONTROL CENTRE: LAC DU BONNET DISTRICT:	204-474-2715 345-2392
MANITOBA HYDRO - POINTE DU BOIS POWERHOUSE	204-884-2203
DON SIKORA CONTRACTING	204-345-8028 cell – 204-268-5930
GREWINSKI TRUCKING	204-345-2202
JOHN GREWINSKI RESIDENCE:	204-345-8747
CLEAN HARBORS (24 HR)	204-231-9448
ALFIO CORVINO, GENERAL MANAGER	1-800-645-8265
MILLER ENVIRONMENTAL CORPORATION	204-925-9600
BASF	1-800-794-1019 (08:00 – 17:00 hrs EST) 1-800-832-4357 (24 hr Emergency)
Border Chemical Ltd	204-222-3276
SUPERIOR PROPANE (Propane Emergencies)	204-488-4499 877-873-7467
PRAXAIR (CARBON DIOXIDE)	800-363-0042
JADE TRANSPORT (WINNIPEG)	204-233-3566 Dispatch: 800-665-5143
TRIMAC TRANSPORTATION SYSTEM (WINNIPEG)	204-233-8945 Dispatch: 204-233-7158
<u>STUART HUNT & ASSOCIATES</u> (NUCLEAR DEVICES)	780-458-0291 800-661-4591
<u>THERMO MEASURETECH</u> (MILL NUCLEAR DEVICES)	905-888-8808
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9. DANGEROUS GOODS EMERGENCY ASSISTANCE

CANUTEC (Canada)

613-996-6666

Website:

<http://www.tc.gc.ca/CANUTEC>

Emergency Response Guidebook:

<http://www.tc.gc.ca/canutec/en/guide/ergo/Eng%20complete.pdf>

CHEMTREC (USA)

1-800424-9300

Website:

<http://www.chemtrec.org>

Emergency Response Guidebook:

<http://hazmat.dot.gov/pubs/erg/gydebook.htm>

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SITE EVACUATION PROCEDURE

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SOUNDING THE ALARM

The site evacuation procedure may be initiated under the following circumstances:

- Uncontrolled propane fire
- Major formic acid release
- Catastrophic or major mine collapse or flood
- Forest Fire Threat
- Tornado Threat
- Any other threat that poses a significant risk to employees, or minesite operations

SITE EMERGENCY ALARM ACTIVATION (SURFACE):

The **site emergency alarm** may be activated by:

- the switch at the hoistman's booth
- operating the firepulls at:
 - the wall of the storage building across from the shipping/receiving building
 - outside the maintenance shop south mandoor
 - outside the maintenance shops north mandoor.

Note: The site emergency alarm is also activated when:

- the smoke detector at the miners' lamp storage area is triggered
- the emergency alarms in the Mill or Cesium Plant are activated.

When the site alarm is activated horns will sound in the following locations:

- above the maintenance shops,
- in the welding shop
- on the west wall of the Cesium Plant,
- inside the Cesium Plant,
- inside the Mill

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An indicating light on the fire alarm panel located outside the Mill lunchroom will indicate that the site emergency alarm/Cesium Plant emergency alarm has been activated. Pressing the silence button on the fire alarm panel will silence the site emergency horns, but the indicating light will remain on until the activating firepull is reset

SITE EMERGENCY ALARM ACTIVATION (MILL):

The **site emergency alarm** may be activated in the Mill by operating the firepulls at:

- South and east exits of the dry grinding plant
- East exit of the headframe
- East exit next to the Mill lunch room
- East exit by the main Mill entrance
- West door of MCC 5 & 6
- Centre of the Assay Lab area

When the emergency alarm is activated in the Mill, the following alarms will sound:

- The site emergency alarm horns listed above
- The emergency alarm buzzers and strobe lights inside the Cesium Plant
- The emergency alarm buzzers and strobe lights inside the Mill

An indicating light on the emergency alarm panel located outside the Mill lunchroom will indicate the location of the firepull station used. Pressing the silence button on the fire alarm panel will silence the emergency horns and buzzers, but the strobe lights in the Mill will remain flashing until the activating firepull is reset.

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SITE EMERGENCY ALARM ACTIVATION (CESIUM PLANT):

The **site emergency alarm** is activated by operating the firepulls in the Cesium Plant at the following locations:

- each entrance to the Cesium Plant and Boiler room (7 locations)
- MCC mandoor – south
- Outside control room west door
- Inside control room east door

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- Outside lunch room west door
- Inside smoke room east door

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When the emergency alarm is activated in the Chemical Plant, the following alarms will sound:

- The site emergency alarm horns listed above
- The emergency alarm buzzers and strobe lights inside the Mill
- The emergency alarm buzzers and strobe lights inside the Cesium Plant

When the Cesium Plant fire alarm panel in the control room is silenced, the Cesium Plant emergency alarm buzzers will silence, but not the site emergency horns

An indicating light on the fire alarm panel located outside the Mill lunchroom will indicate that the site emergency alarm/Cesium Plant emergency alarm has been activated. Pressing the silence button on the fire alarm panel will silence the site emergency horns, but the indicating light will remain on until the firepull is reset

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ALL CLEAR SIGNAL

The all clear signal shall be a five second sounding of the site emergency alarm, followed by five seconds of silence followed by another five second sounding of the alarm. This will be initiated from the hoistman's booth.

Instruction to sound the all clear signal may only be initiated by the Incident Commander, directly by telephone to the hoistman, or through the Surface Operations Manager if the hoistman is not available.

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ASSEMBLY AREAS:

On Site:

GROUP	PRIMARY ASSEMBLY AREA	ALTERNATE ASSEMBLY AREA
Staff	Parking Lot	
Mine, Operations & Maintenance	Parking Lot	
Contractors & Visitors	Security	
ER Team	ER Building	

MRTR = Mine Rescue Training Room

Off-site: In the event that the site must be evacuated, the off site assembly area is the Community Hall located behind the Bird River Fire Hall.

Employees leaving site must immediately proceed to this location for roll call.

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EMPLOYEE RESPONSE TO SITE EMERGENCY ALARM

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On hearing the **site emergency alarm**, employees will respond as follows:

- All employees carrying portable radios shall turn their radios to **Channel 1**
- Members of the Emergency Response Team will immediately report to the Emergency Services Building, for roll call and to prepare to respond to the emergency.
- All other employees will immediately assemble in the parking lot for roll call
- Security personnel will immediately return to their office at the main gate
- Any non-employees (contractors, salesmen, truckers and other visitors) will immediately proceed to the Security Building.

NOTE: Tanco employees shall assist all non-employees to report safely to the Security Building.

- **Outside the period 08:00 – 16:00 hrs Monday through Friday**, all Tanco employees will report to parking lot.

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ROLL CALL GUIDELINES

- Employees shall make all reasonable efforts to get to the assembly point for roll call. If unable to do so then employees must attempt to contact the Shift Supervisor by any means available.
- Employees shall not leave the assembly point until released.
- Employees responsible for taking roll call must transmit this information within five to ten minutes to the Incident Commander. Updates on the progress of the roll call must then be provided at timely intervals.

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EMERGENCY RESPONSE TEAM ACTIVATION

- The Emergency Response Team may be activated 08:00 – 16:00 hrs Monday – Friday (without activating a general plant evacuation) by calling Security on Extension 259 and providing the following information:
 - The name of the person calling
 - The local telephone number or radio channel on which the person calling may be reached
 - The location and nature of the emergency
- Security will:
 - Record the details of the emergency.
 - Activate the pagers to assemble the Emergency Response Team
 - Brief the team by providing the information gathered above
- On hearing their pager, Emergency Response Team members shall report immediately to the Emergency Services building

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UNDERGROUND EVACUATION

STENCH GAS (ALARM)

Workers underground are notified of an emergency by the injection of stench gas into the ventilation and compressed air systems under the following circumstances:

- Underground fire
- Sudden influx of slime or water,
- Surface conditions that threaten underground air quality:
 - Fire
 - Spill of volatile material (formic acid for example)

Only trained employees will initiate the stench gas:

- Mine Supervision or other trained employee
- Mine Engineering staff
- Shift Supervisor

EMPLOYEE RESPONSE TO STENCH GAS

On smelling the stench gas in the mine, all employees underground shall respond as follows:

- Proceed to the **nearest** refuge station. Notify other workers along the way.
- Personnel in the shaft or on Second Level should proceed to surface via the shaft, If the shaft is contaminated with smoke or gases, they should proceed to the nearest refuge station.
- **Do not** proceed up the main ramp to surface. This is the Mine exhaust and gases will be concentrated here. Anyone already travelling up in the ramp when stench is smelled may continue to travel to surface.
- **Mine Flooding:** If it appears that the Mine is being inundated with water, proceed immediately to surface via the closest means available – main ramp or shaft. Do not ride the skip. Report to the Mine Office.

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EMPLOYEE RESPONSE TO MINE FLOOD EVENT

- **Mine Flooding:** Refer to the Mine Flood Evacuation Plan.

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REFUGE STATION PROCEDURE

- REMAIN CALM
- NO SMOKING IS PERMITTED IN THE REFUGE STATION UNDER ANY CIRCUMSTANCES. This is important to preserve air quality.
- The first person to arrive at the station takes charge of the station.
- Turn on the siren and flashing lights.
- On the emergency checklist, record the names of all personnel arriving at the refuge station. Note the time they arrived and when they smelled the stench gas, if applicable.
- Open the small ventilation hole on the refuge station door and then turn on the compressed air in the station to allow fresh air to enter the station. If compressed air pressure is lost, close the small ventilation hole on the refuge station door and the fresh air valve to prevent contaminated air or smoke from entering the station. The air line may have become breached by fire or collapsed.
- If needed, use the fire clay in the pails to seal around the refuge station door. If someone enters after the door has been sealed, then reseal it.
- Conserve energy. Remain seated. Once an hour, have one person walk around the room to “stir” the air.
- Turn off cap lamps to preserve battery life.
- Ration food and water supplies. You do not know how long you may need to remain in the refuge station.
- Do not, under any circumstances, leave the refuge station until instructed to do so. You will be contacted with information or asked to provide information from time to time during the emergency
- DO NOT USE THE PHONE! THE PHONE MUST BE KEPT AVAILABLE AT ALL TIMES DURING THE EMERGENCY.
- YOU WILL BE CONTACTED FROM THE EMERGENCY CONTROL CENTER. THE PERSON IN CHARGE OF THE REFUGE STATION SHOULD ANSWER THE PHONE. HAVE THE COMPLETED CHECKLIST READY SO THAT THE NAMES OF PERSONNEL CAN BE COMMUNICATED TO THE EMERGENCY CONTROL CENTER.
- THE DIRECTOR OF OPERATIONS, AFTER CONSIDERING ALL FACTORS INVOLVED WITH THE EMERGENCY WILL PROVIDE INSTRUCTIONS ON WHEN, OR HOW TO PROCEED TO SURFACE.

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UNDERGROUND EMPLOYEES ON SURFACE

- Underground employees that are on surface when they become aware of any site emergency must immediately report to the parking lot assembly area, and remain there for roll call.

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1.0 DAILY PROCEDURE TO COMMENCE WORK IN THE MINE

Before work commences in the mine for the day, a review of the mine integrity monitoring data must be completed by the **trained authorized** designates of the Mine Engineering Department.

Trained authorized designates include:

Primary Authorizer - Mine Rock Mechanic Engineer (Wen Wu)

Secondary Authorizer - Mine Engineer – (Jining Zhong)

Final Entry Authorizer – Facility General Manager (Will Brits)

1.1 PERMIT TO WORK ISSUED BY THE MINE ENGINEERING DEPARTMENT

The Engineering Dept. will apply the 'Tanco Interim Micro Seismic Risk Matrix' attached in the appendix of this document and if the assessment allows the authorizer will issue a work permit.

Once the Mine Captain or designate receives the permit they initiate the work plan for the day.

The work permit must be signed off by two designates as well as the Facility General Manager as the final authorizer.

1.2 TOOLBOX TALK AND WORK TASK ASSIGNMENT

The Mine Captain (Rocky Aitkenhead) or Mine Manager (Wentzel Coertzer) will start the day off on surface by delivering a toolbox talk to all crews that will be working underground. (Ex. Diamond drill crews, maintenance, etc.)

Each work task assignment will include:

- Location of where crews will be working & a requirement to test the *SpectraLink* coverage that area at the beginning of the shift and re-entry after lunch break.
- Evacuation plan / route for assigned work area
- Work flow
- Equipment Assignment

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Each day one miner will be assigned work adjacent to the Main Zone area (Area of Crown Pillar concern). This miner will be assigned the task of monitoring the inflow of water to the area.

- The Miner will be assigned a truck & a phone to initiate the Underground Evacuation Procedure.
- In the event of a sudden influx of water, the Miner will use the push-to-talk feature on their personal *SpectraLink* phone to broadcast a 'report to refuge station' message to all people underground.
- The Miner will then call Security at #259 and instruct Security to initiate the deployment of stench gas & site evacuation alarm.

1.3 TAG IN TO MINE LOCATIONS

Each person going underground will place their personal I.D tag in the appropriate location identified on the 'Tag in Board' located outside the Mine Shift Office.

2.0 UNDERGROUND EVACUATION

2.1 EMPLOYEE RESPONSE TO STENCH GAS / OR ASSEMBLY NOTIFICATION VIA *SPECTRA LINK* PHONE

On smelling the stench gas in the mine or receiving the broadcast, all employees underground shall respond as follows:

- Proceed to the **nearest** refuge station. Notify other workers along the way.
- Personnel in the shaft or on Second Level should proceed to surface via the shaft, if the shaft is contaminated with smoke or gases, they should proceed to the nearest refuge station.
- **Do not** proceed up the main ramp to surface until directed by the Director of Operations or his designate. This is the Mine exhaust and gases will be concentrated here. Anyone already travelling up in the ramp when stench is smelled may continue to travel to surface.

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3.0 REFUGE STATION PROCEDURE

- REMAIN CALM
- NO SMOKING IS PERMITTED IN THE REFUGE STATION UNDER ANY CIRCUMSTANCES. This is important to preserve air quality.
- The first person to arrive at the station takes charge of the station.
- Turn on the siren and flashing lights.
- On the emergency checklist, record the names of all personnel arriving at the refuge station. Note the time they arrived and when they smelled the stench gas, if applicable.
- Do not, under any circumstances, leave the refuge station until instructed to do so. You will be contacted with information or asked to provide information from time to time during the emergency
- DO NOT USE THE PHONE! THE PHONE MUST BE KEPT AVAILABLE AT ALL TIMES DURING THE EMERGENCY.
- YOU WILL BE CONTACTED FROM THE EMERGENCY CONTROL CENTER. THE PERSON IN CHARGE OF THE REFUGE STATION SHOULD ANSWER THE PHONE. HAVE THE COMPLETED CHECKLIST READY SO THAT THE NAMES OF PERSONNEL CAN BE COMMUNICATED TO THE EMERGENCY CONTROL CENTER.
- **THE DIRECTOR OF OPERATIONS, AFTER CONSIDERING ALL FACTORS INVOLVED WITH THE EMERGENCY WILL PROVIDE INSTRUCTIONS ON WHEN AND HOW TO PROCEED TO SURFACE.**

3.1 ROUTE OF TRAVEL FOR EVACUATION (MAIN RAMP OR MAN-WAY IN THE SHAFT)

- Once the Director of Operations checks all the available sensors and data he will determine the safest possible route of travel for the evacuation. There are two possible routes, the man way in the shaft or the Main Ramp. If there is no water from the refuge station to the ramp this would be the first choice.
- All men once accounted for would be instructed to proceed by Man Carrier directly up the ramp and report in to the Director once they reach surface.
- If the shaft is determined to be the safest route, the employees will enter the man way in compartment three and start to climb the ladders in an orderly fashion. One at a time they would climb the ladders. Once they reach the next landing they would call back down for the next employee to begin his egress.

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Then continue on the next ladder. This would continue until all employees' reached surface and report to the Director of Operations at the assembly point.

3.2 UNDERGROUND EMPLOYEES ON SURFACE

Underground employees that are on surface when they become aware of any site emergency must immediately report to the parking lot assembly area, and remain there for roll call.

DRAFT

APPENDIX

Tanco Interim Micro Seismic Risk Matrix (non-blasting events)

Severity	Frequency (Events per hour)							
		1	2	4	8	16	32	64
3								
2								
1								
0								
-1								
-2								
-3								

White - safe – no alarm needed.

Yellow – Have the mine checked by the Rock Mechanic and Senior Operator to assess any signs or damage. Check other instrumentation.

Red – Evacuate the mine. Wait until the system returns to Yellow then inspect the mine. Wait until White then return men to the mine.

Black – Rock Burst or Fall of Ground is expected.

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MTS Telephone System SECTION INDEX

This is the normal everyday telephone system utilized throughout the minesite. Eight external lines are available. Dial 9 for an outside line. An access code is required for long distance calls.

Underground Phone

This system extends the normal telephone system underground to individual employees underground.

UHF Radios

Radios are used for everyday inter-employee communications on site. Five channels are programmed, and designated as follows:

Channel	Designated Use
1	Emergency
2	Surface Operations
3	-
4	Maintenance
5	-

A base station of about 25 watts is located in the main office entrance area. This is fitted with a telephone interconnect to allow activation of the site pagers.

FAX Machines

SECTION INDEX

The following FAX machines are fitted with a handset that may be used for outgoing voice communications:

- Maintenance Trailers (884-2230)

Fleetnet Radios

These two way radios may be used anywhere in Manitoba, based on the location of the transmission towers. Coverage is reported to be more extensive and reliable than that for cellular telephones. The following transmission towers are included in Tanco's "toll free" zone:

- Belair
- Bissett
- Lac du Bonnet
- Manigotagan
- Nopiming

Roaming charges apply to communications outside these zones, in Winnipeg or Brandon for example.

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Operational Note: Fleetnet radios do not work within metal clad buildings. The cladding shields the signal.

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Telephone calls can be made using the radio keypad. These calls are restricted to 5 minutes during the day (06:00 – 20:00 hrs), and 8 minutes at night (20:00 – 06:00 hrs). These restrictions may be less during periods of high call volumes.

Calls may be made to the radios from a regular telephone (instructions below)

There are four Fleetnet radios on site found at the following locations:

- Shift Supervisors Office – Radio ID# 714639
- Security - Radio ID# 714638
- Front Office - Radio ID# 714640, 714642

Instructions for Fleetnet radio use are appended.

Cellular Telephones

A number of staff carry cellular phones provided by Tanco:

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User	Cell Phone Number
IT Specialist	204-340-5149
SH&E Manager	204-345-4803
SH&E Coordinator	204-340-0868
HR Manager	204-340-5123
Underground Operations Manager	204-340-5996
CP Process Supervisor	204-345-3550
CP Operations Manager	204-345-3342
Laboratory/Quality Manager	204-345-3661
Technical Manager	204-340-5999
Facility General Manager	204-340-5998
Finance Manager	204-340-6864

The warehouse truck is also fitted with a cellular phone: 204-345-3129

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FEMCO Phone

The Femco phone is a completely self-contained battery-powered mine communication unit that provides loudspeaker paging and a handset party line conversation.

Phone sets are installed at the following locations:

- Security
- Hoistroom
- First level Refuge Station
- West Refuge Station
- 8-M
- Second Level S-1 Chute
- Transfer Raise Breaker Booth (Disconnected)

Instructions for Femco phone use are appended.

Pagers

Motorola Minitor V pagers are used to page the ER Team. Call 259 (Security) to activate in case of emergency

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How to use the Motorola Fleetnet LTS 2000 Radio

Step	Instruction	Notes
1	Turn the radio on	
2	Select Channel 1	
3	Check the display reads 2-A	Use the up and down arrows on the keypad to change the display as required
4	Press the push to talk button on the left hand side of the radio, release to listen	
	To make a telephone call FROM the radio:	Short calls only (<5 min)
1	Press the phone button on the bottom right of the keypad	Dial tone will sound
2	Key in the telephone number	Calls are routed through Winnipeg – 1-204 should precede the number
3	Press the push to talk button on the left hand side of the radio, release to listen	Only one person may speak at a time. The conversation will be heard by all radio users in the group.
4	Press the phone button on the bottom right of the keypad to disconnect	
	To make a telephone call TO the radio:	Short calls only (<5 min)
1	Dial 1-204-783-0903	
2	At the tone, key in the radio ID number	Radio ID numbers are: <ul style="list-style-type: none"> • 714638 - Security • 714639 – Shift Supervisor • 714640 – Front Office • 714642 – Front Office
3	The radio user must press the phone button on the bottom right of the keypad to receive the call	Only one person may speak at a time. The conversation will be heard by all radio users in the group.
4	The radio user must press the phone button on the bottom right of the keypad to disconnect	

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FEMCO Phone Operation

Step	Instruction	Notes
1	Pick up the hand set and press the button. Keep the button pressed.	This connects the phone to the system
2	Lift the switch on the base and speak to page the intended recipient – the Hoistman for example.	This page will be heard at all the phone stations
3	When the page is answered, speak as with a normal phone, but keep the handset button pressed	
4	When finished talking, replace the handset in the cradle	

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FIRE FIGHTING EQUIPMENT

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Fire hydrants, hoses and equipment are located in the following locations:

1. Main Pump House (on Lake Shore)
2. Mill - Near Vent House
3. Mill – North wall facing Feldspar Disposal area
4. Mine Dry - at First Aid room door
5. Hoist Room - at West Door
6. Welding Shop - South Door facing Sub Station
7. Machine Shop - North Door
8. Warehouse - near office
9. Back of Dry - North End
10. Mill Office - Downstairs
11. Chemical Plant – each exterior wall of plant

NOTE: FIRE FIGHTING EQUIPMENT IS STORED IN THE EMERGENCY SERVICES (SECURITY) BUILDING.

NOTE: FIRE EXTINGUISHERS ARE LOCATED THROUGHOUT ALL SITE BUILDINGS.

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EMERGENCY RESPONSE VEHICLE

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The Emergency Response Vehicle is normally located in Emergency Services building. The following equipment is contained in the emergency vehicle:

QTY	ITEM	QTY	ITEM
1	Flash Light	12	Suction Bags
	Flares and Tools		Garbage Plastic Bags
1	Back Board and Straps		Foam Cups
2	Stretchers	12	Triangular Bandages
1	Bowl	2	Cervical Collars
1	IV Rack	7	Pressure Dressings
0	Splints	6	Dressings 4 x 4
1	Paramedic Kit	6	Dressings 3 x 3
1	Bed Pan and Bottle	13	Dressings 2 x 2
2	Oxygen Mask Nasal	2	Pillows
3	Oxygen Mask Face	2	Pillow Cases
1	Thermox Change Water	2	Sheets
1	Suction Hose	3	Blankets
2	16" Tracheal Suction Catheter	2	Towel
2	Bandage 1" x 2" x 4"	1	Face Cloth
1	Cervical Extrinsication Collar	1	Manual Resuscitator
1	Life Saver Kit #1173	2	½" Tape
2	1" Tape	2	2" Tape
4	4" Gauze	2	2" Gauze
2	1" Gauze	6	Stretcher straps

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In the event of a serious accident (or illness) in parallel with all other steps that must be taken, arrangements must be made to have the emergency vehicle manned and moved to the most suitable location in preparation for loading.

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EMERGENCY RESPONSE BUILDING

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The following equipment is contained in the Emergency Response Building:

QTY	ITEM	QTY	ITEM
	<i>Breathing Apparatus</i>		
4	Scott Air Pak	2	Regulator to belt holders
10	Scott Air Pak cylinders	3	SKA-Paks (Scott) with Air Cylinders
10	Scott Air Pak Masks	4	SKA-Pak cylinders
2	Air pressure regulators with air line adapters	2	Breathing Air bottles
1	Bottle 'O'rings (6pcs.)	4	50 ft air hose
		3	Pressure gauge 0-600PSI
	<i>Fire Fighting</i>		
2	Wajax Mark 3 Pumps	1	Cam lock to Wajax adaptor
1	Toolbox of Wajax pump parts	9	1 ½" Fire Hoses
2	Wajax Pump intake hose	2	2" Fire Hoses
8	Spanner Wrenches	5	1 ½" Quick disconnects
4	Hose Coupling Keys	1	1 ½" coupling
11	Hose Gaskets (2")	5	1 ½" bushings
7	Water Back Packs	4	1 ½" Leader Line Wye (splitter valves)
2	Pike Poles	17	1 ½" Assorted nozzles
2	Shovels	4	Axes
1	30" Paratech Hooligan tool	2	Fire axes

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QTY	ITEM	QTY	ITEM
		1	22 ½ Ton hydraulic jack
		3 set	Turnout Gear (not complete)

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QTY	ITEM	QTY	ITEM
	<i>Rope Rescue</i>		
	High Angle Rescue Tub		First Man Up Tub
1	540 Rescue Belay	2	Beam chokers (large)
11	Prussic cords(long)	2	Beam chokers (small)
10	Prussic cords(short)	4	Scaffold choker
1	Fisk Descender	6	Positioning Lanyard
5	Re-directs (3 Blue, 2 stainless)	1	Anchor sling
1	Beam clamp (adjustable)		
1	Braker bar		
1	Snap hook		First Man Up Bags
11	Carabiners		2 bags each contains:
3	All terrain edge protectors	1	D-Ring extension
4	Mantle rope guards	1	Snap hook tool
1	Edge guard (linatex)	1	Snap hook
3	Webbing strips	1	Tie off adaptor tool
		1	Tie off adaptor (large)
1	Webbing Spool	1	Tie off adaptor (small)
3	Rope bags 200' each	1	Reel kit
		1	Pole extension
		1	Folding bar

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QTY	ITEM	QTY	ITEM
	<i>Confined Space Entry Equipment</i>		
1	Reeves sleeve c/w backboard	1	Rescue Tripod
4	Flashlights	2	Rescue winch
1	Confined Space signs	1	Ventilator Fan
1	6" ventilation hose	1	8" ventilation hose
3	12" ventilation hose	1	Air horn
1	4 plug GFI outlet	4	Rescue Ropes
1	Spreader Bar	2	Air horn refill cans
	<i>Water Safety</i>		
2	Survival Dry Suits	7	Life Jackets
1	16' Canoe	2	Mercury Outboard Motor
1	16' Aluminum Boat	12	Paddles
3	Mustang floater suits		
	<i>Oil Spill</i>		
2	Spill containment boom	1	Pkg oil absorbent squares (200)
	<i>Miscellaneous</i>		
9	Safety Harnesses w/Lanyards	1	Chainsaw
3	Folding Camp Cots	1	110/220v adaptor
3	Sleeping Bags	2	Back Board
1	6' Step Ladders	1	Masonry cutting saw

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QTY	ITEM	QTY	ITEM
2	10' Step Ladders	1	Portable Generator
1	16' Extension Ladder	4	Reflective traffic cones

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QTY	ITEM	QTY	ITEM
	<i>Rope Rescue</i>		
	High Angle Rescue Tub		First Man Up Tub
1	540 Rescue Belay	2	Beam chokers (large)
11	Prussic cords(long)	2	Beam chokers (small)
10	Prussic cords(short)	4	Scaffold choker
1	Fisk Descender	6	Positioning Lanyard
5	Re-directs (3 Blue, 2 stainless)	1	Anchor sling
1	Beam clamp (adjustable)		
1	Braker bar		
1	Snap hook		First Man Up Bags
11	Carabiners		2 bags each contains:
3	All terrain edge protectors	1	D-Ring extension
4	Mantle rope guards	1	Snap hook tool
1	Edge guard (linatex)	1	Snap hook
3	Webbing strips	1	Tie off adaptor tool
		1	Tie off adaptor (large)
1	Webbing Spool	1	Tie off adaptor (small)
4	Rope bags 200' each	1	Reel kit
		1	Pole extension
		1	Folding bar

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QTY	ITEM	QTY	ITEM
	<i>Minor Spill Kit (CP Dome)</i>		
1	Shovel		
2	Bags Soda Ash		
2	Bags Absorball		

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MINE RESCUE EQUIPMENT

INDEX

The following equipment is located in the Mine Rescue Training Room:

QTY	ITEM	QTY	ITEM
	<i>Breathing Apparatus</i>		
11	Dräger BG-4 Units	1	Dräger BG-4 Dryer
1	Dräger BG-4 Tech Testing Kit	54 kg	Drägersorb 400
8	Dräger BG-4 Oxygen Bottle	50	Dräger Dust Filters
2	Ocenco SCBA Unit (1 trainer)	1	Oxygen Bottle Clamp
5	Soda Lime Canister Holders	5	Klar-Pilot Anti Fog (100 ml)
15 L	Airkem A-3 BA Cleaner	1	Dräger RZ-25 Tester
	Medicinal Oxygen Bottles	1	Haskel Pump
	<i>Gas Testing Equipment</i>		
3	Dräger Multi Gas Tester		Dräger Gas detector Tubes
1	Dräger Flame Safety Lamp		
1	Multi-pro Biosystems Gas Tester		

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QTY	ITEM	QTY	ITEM
	<i>First Aid Equipment</i>		
1	Trauma Oxygen Bag	1	Stretcher
1	Scoop Backboard c/w Harness	2	Manual Breathing Pump
1	First Aid Kit		Assorted Splints
16	Wool Blankets		Disposable Gloves
			Triangular Bandages
	<i>Fire Fighting Equipment</i>		
1	ProPak Portable Foam System	1	Turbo Jet Foam Nozzle Style 1720
250 ft	1.5" 400 psi Fire Hose	1	Akron Foam Siphon Style 3060
1	1.5" Fire Nozzle	1	Quick Attach Nozzle Style 766
1	1" Water Nozzle	5 gal	Angus Tridol 3% Foam Concn.
10 gal	Angus High Combat A Foam		
	<i>Miscellaneous</i>		
1	Smoke Generator	12 L	Smoke Fluid
10	Northern Lights Miners Lamp	13	Safety Glasses
8	Brattice Cloths (8x8)		Disposable Razors
	Shaving Cream		Wood Wedges

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QTY	ITEM	QTY	ITEM
	<i>Tools</i>		
2	Crescent Wrench	4	Screwdrivers
2	Pliers	1	Wire Cutters
1	19-32mm Combination Wrench	2	Utility Knives
2	Scissors	1	Oxygen Gauge
1	Nippers	2	Brass Brush
1	Gas Bottle Installation Tool	1	Screw/Bit Set
1	Pick Set	1	6 ft Scaling Bar (Aluminum)
1	6 ft Scaling Bar (Steel)	1	36" Swede Saw & Guard
4	Shovels	1	Axe (with cover)
1	Hatchet (with cover)	1	4 lb Sledge Hammer
4	16 oz Claw Hammer	1	Tool Bag
2	Staplers (with staples)	2	12" Miners Crescent Wrench
3	Victaulic Clamp Speed Wrenches	2	26 ft Measuring Tape
2	Punch Lock Machine	1	16 ft Measuring Tape
	Punch Lock Clamps	1	Proto Torque Wrench
1	18" Pipe Wrench	2	Captain Sticks c/w Horns
4	Horns	2	Maxiforce lifting Bags
2 Roll	Flagging Tape		Maxiforce Controller, Regulator & Hoses

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QTY	ITEM	QTY	ITEM
	Assorted Nails		

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DON SIKORA CONTRACTING

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Equipment Available (18 June 2013):

Qty	Item	Qty	Item
3	Graders	1	Cedar Rapid Rock Crusher
1	5 ton Lowbed	1	Feller Buncher
1	20 ton Lowbed	1	Grapple Skidder
1	50 ton Lowbed	1	Pro Mac Brushcutter
3	Dump Boxes, semis	3	Belly Dump Gravel trailers
3	Tandems	1	450 Excavator, 5 yard
4	Rock Trucks	1	270 Excavator, 3.5 yard
1	Rubber Tire Backhoe	1	270 Excavator, 3.5 yard
1	450 John Deere dozer	1	6300 Excavator, Longstick 1.5 yard
1	D6H Crawler Bulldozer	1	215 Excavator, 1.5 yard
2	5 yard Loader (980, 644)	1	200 Excavator, 1.5 yard
1	3.5 Yard Loader (621)	1	Portable Welder
1	Bobcat		Generator Sets
1	Gravel Screener		Various Water pumps

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CLEAN HARBORS

Winnipeg, Manitoba Service Center

45 Terracon Place	24 Hr. #	(204) 231-9448
Winnipeg, MB R2J 4B3	24 Hr. #	(800) 645-8265
Alfio Corvino, General Manager	Fax #	(204) 233-4177

Personnel Authorized to release equipment / materials / manpower, etc:

Alfio Corvino

Ron Lounsbury

40-Hour OSHA Trained Personnel:

Supervisor	1
Foreman	2
Equipment Operator	4
Field Technician	2

Equipment List	Location	Capacity / Size / Model	# of Units
Item Description			
(1) Motor Vehicles			
Vacuum Straight Truck	Winnipeg	10,000L	1
Vacuum Straight Truck w/pup	Winnipeg	20,000	1
High Powered Vacuum	Winnipeg	Cusco – 8,000L	1
Pick-Up Trucks	Winnipeg	Ford	5
Steamers	Winnipeg	3,500 PSI Heated	3
Wet/Dry Vac	Winnipeg	5700 CFM	2
Emergency Response Trailer	Winnipeg	22'	1

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Equipment List	Location	Capacity / Size / Model	# of Units
High Pressure Waterblaster	Winnipeg	15,000 PSI	1
Tractor with Van Trailer	Winnipeg	Portable Forklift, Secondary Containment	1
(2) Pumps and Pressure Equipment			
Diaphragm Pump (Chemical and Flammable)	Winnipeg	2"	2
Diaphragm Pump	Winnipeg	3"	2
(3) Environmental Monitoring Equipment			
5 Gas PID	Winnipeg	MSA Sirius	2
4 Gas	Winnipeg		1
Gastech Meter	Winnipeg	Gastech (numerous tube varieties)	2
(4) Recovery Equipment			
Open top drums	Winnipeg	205L (Steel and Poly)	20
Closed top Drums	Winnipeg	205L (Steel and Poly)	20
Absorbtion Pads	Winnipeg	Bundles (oil select and universal)	40
Absorbent Booms	Winnipeg	2" to 4" diameter	40
(5) Generators / Compressors / Light Towers			
5KW Generator		Wacker	1
(6) Health and Safety Equipment			
Rogliss Tripod	Winnipeg	DBI	1
SCBA	Winnipeg	MSA Airhawk	4

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Equipment List	Location	Capacity / Size / Model	# of Units
Item Description			
	g		
SAR	Winnipeg	MSA Hipair	4
Chemical Suit	Winnipeg	Various	300

Emergency Response Subcontractors

Ken Palson Trucking

2315 Dugald Road
Winnipeg, MB R2C 5L4
(204) 663-9008
(204) 663-8061 (Fax)

Contact: Ken Palson

Services Provided:

Backhoes, Loaders, Trucks

MEP Environmental

68 Paramount Road
Winnipeg, MB R2X 2W3
(204) 632-4118
(204) 632-5809 (Fax)

Contact: Chris Guenther

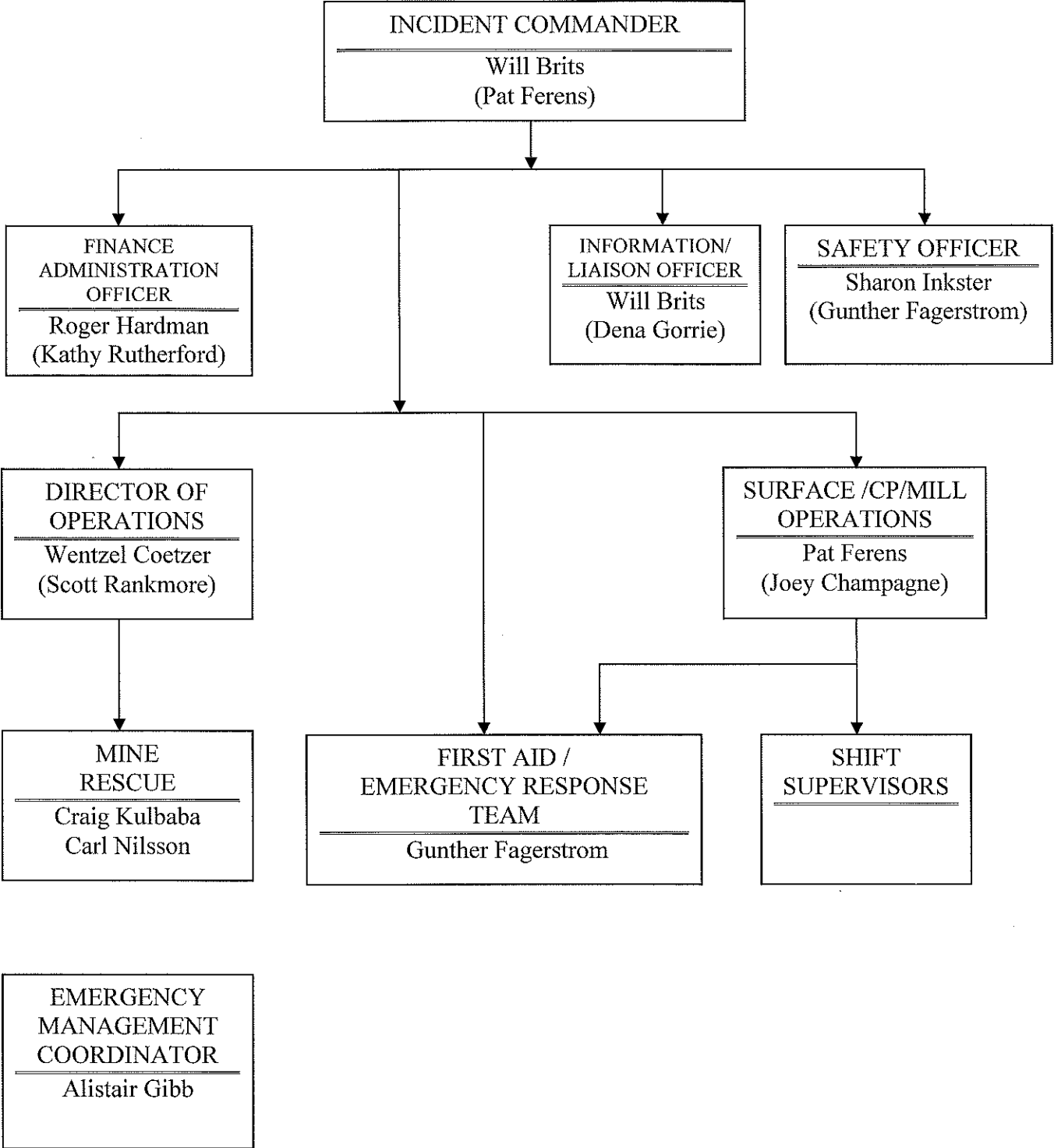
Services Provided:

24 Hour Emergency
Response Supplies
Boom, Pads, Etc.

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EMERGENCY ORGANIZATION CHART

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SHIFT SUPERVISOR RESPONSIBILITIES

The Shift Supervisor shall be initially responsible for **all** site emergency operations as acting Incident Commander.

Note: In the event that the Shift Supervisor is incapacitated, the **Grinding Plant Operator** hand must be immediately informed.

The Shift Supervisor shall take the following steps (these steps may be delegated to other employees as necessary).

- Initiates evacuation procedures if necessary (Mine or all Surface operations)
- Account for all employees known to be on site.
Note: The roll call document will be printed out at the Security printer when the evacuation alarm is sounded.
- Initiate a search for any missing employees.
- Ensure that any injured employees receive first aid and/or off site medical aid as required.
- Take all reasonable steps to control the emergency using any resources available: contain a fire situation if safe to do so, contain or control a spill for example.
- Call in any employees that may be potentially required to control or remediate the emergency:
 - Operators
 - Maintenance
 - ER Team
 - First aid
 - Mine Rescue
- Call in any off site First Responders that may be required (9-1-1):
 - Bird River Fire Department
 - Ambulance Services
 - RCMP

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- Contact the following staff as appropriate to inform them of the situation and any remedial measures that have been initiated:
 - Mine Operations Manager
 - Surface Operations Manager
 - Chemical Plant Production Manager
 - Facility General Manager
 - SH&E Manager
- Inform Security of the emergency condition, and provide appropriate instructions regarding entry and direction of employees called in, and direction of First Responders.
- Provide an escort for first responders if available.
- Upon arrival of a senior manager, carries out a briefing of that manager, and continues to function in a front line role until relieved.
- **DO NOT** issue statements of any kind to the families of employees or to the media, no matter how insistent they may be regarding deadlines. Take names and a contact number and pass this information on to the senior manager present.

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GENERAL EMERGENCY RESPONSE:

SECURITY PERSONNEL RESPONSIBILITIES

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- During the routine sign in process, ensure that every site visitor (including truck drivers) is instructed to return to the Security Building when the site emergency alarm sounds.
- On hearing the site emergency alarm, return immediately to the Security Building.
- Ensure the portable radio is switched to Channel 1
- Print out roll call documents as follows:
 - Monday – Friday, 08:00 – 16:00

Document Title	Printout Location	Printer Selection
Roll Call ER Team	Security	Manitoba01\Security
Roll Call Administration	Security	Manitoba01\Security
Roll Call Surface Ops	Security	Manitoba01\Security
Roll Call Mine	Security	Manitoba01\Security
Roll Call Maintenance	Security	Manitoba01\Security
Roll Call Security (For Contractors)	Security	Manitoba01\Security

- All other times:

Document Title	Printout Location	Printer Selection
Roll Call All Employees	Security	Manitoba01\Security

- Ensure that the gateway is kept clear at all times to allow entry and exit of emergency vehicles

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- During a site evacuation, carry out a roll call of all non-TANCO persons known to be on site – contractors, truck drivers, salesmen and any other visitors. Use the sign in log.
Report unaccounted persons to the FGM or senior manager (08:00 to 16:00 hrs) by radio (Channel 1) or to the Shift Supervisor (at all other times)
During inclement weather, non-TANCO persons may be directed to the Mine Rescue Training Room, after roll call is complete, and it is safe to do so.
- Control incoming/outgoing traffic and employees. Only allow authorized persons to enter or leave the site – this includes site employees at shift change for example. Direction will be provided by the Shift Supervisor or the senior manager on site
- Provide direction to First Responders as instructed by the Shift Supervisor or the senior manager on site
- Maintain a time log of all activity.
- Do not leave the site until the Incident Commander grants permission.
- Test the ER Team and First Aid pagers for proper operation every night shift

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SHIFT SUPERVISOR RESPONSIBILITIES

INDEX

- During emergencies from 08:00 – 16:30 hrs, assist as necessary the roll call of assembled employees in the Assembly Points
- Work with the Surface Operations Manager and/or Mine Operations Manager as necessary to execute the response plan

INCIDENT COMMANDER RESPONSIBILITIES

INDEX

Overview of Responsibilities:

- Responsible for implementation and co-ordination of the Tanco Emergency Response Plan in the event of an emergency.
- Controls all Operations, Maintenance, Security and Safety, including contractors or outside personnel performing operational, maintenance, repair, or security tasks on site.
- Plans, approves and directs necessary response actions (Incident Action Plan).
- Acquires any additional resources that are necessary to resolve the emergency.
- Manages staffing and manpower, including shift rotations and additional manpower needs.
- Makes final decision regarding the termination of the emergency and the beginning of “recovery”. This must be done in conjunction with any governmental agencies that have authority/jurisdiction over the emergency.
- Co-ordinates and controls all media communications.
- Co-ordinates and controls contacts with the regulatory authorities
- Coordinates with Legal Counsel.

Actions Required:

- Ensure with the caller that initial emergency procedures are in motion (stench warning, fire alarms, etc.)
- If the call did not come from the manager of the department involved, immediately contact this manager and delegate him to take charge of the emergency response activities in the field.

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- Ensure that any off site First Responders that may be required are called in (9-1-1):
 - Bird River Fire Department
 - Ambulance Services
 - RCMP
- Arrange back-up for the Mine Rescue Team if initial information indicates that this is necessary.
- Arrange/authorize any other external resources that may be required to control the emergency – contractors, technical, medical and legal resources, air services for example
- Ensure that all regulatory reporting is carried out in a timely manner:
 - Energy and Mines
 - Workplace Health & Safety – Inspection Branch
 - Manitoba Conservation – Environment Division
 - RCMP
- Ensure that all Divisional and Corporate reporting is carried out:
 - Cabot Specialty Fluids - Schaffhausen
 - Cabot Corporation - Boston
- If not already at the Mine, proceed at first opportunity to the Mine to provide direction and support in the ongoing response to the emergency
- Approves any communications with the media. Co-ordinate with Corporate media relations as required.
- Assume sole responsibility for communications with regulatory agencies.
- Assume sole responsibility for communications with the families of employees that may be affected by the emergency. Co-ordinate with site Human Resources and Corporate Human Relations as required
- Ensure that relevant information is conveyed to response personnel in the field
- Maintains an incident log, with times.

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SAFETY/ENVIRONMENT MANAGER:

Overview of Responsibilities:

INDEX

- Participation in response planning to ensure that all safety and environmental risks are identified and considered.
- Monitors conditions, activities and operations in the field to identify potential or developing hazards,
- Suggests ways to reduce risks.
- Ensures injured employees receive appropriate medical attention.

Actions Required:

- Participates in the development of the incident action plan (written or oral)
- Suggests alternative approaches to reduce safety and environmental risks
- Monitor activities in the field to ensure that risks are minimized
- Ensures that appropriate PPE is available and used, for both employees and external responders
- Facilitate investigation of incidents that occur as a result of the incident response.
- Initiates as required first aid response for possible multiple casualties,
- Advises the Incident Commander regarding external reporting requirements
- Maintain an incident log with times

INFORMATION/LIAISON OFFICER:

Overview of Responsibilities:

INDEX

- Development and release of information to the news media, incident personnel, and to other appropriate agencies and organizations
- Act as the contact for the personnel assigned to the incident by assisting or co-operating agencies

Actions Required

- Develops material for use in media briefings for approval by the Incident Commander
- Inform the media, conduct media briefings
- Maintain current information summaries on the incident
- Participates in incident action plan development

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- Maintain an incident log with times
- Maintains and updates contact with assisting or co-operating agencies

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SURFACE OPERATIONS EMERGENCY RESPONSE

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RESPONSE OVERVIEW:

- If operations employees are evacuated, they assemble in the parking lot for roll call. They remain in the parking lot until released.
- Evacuated Maintenance employees assemble in the parking lot for roll call. They remain in the parking lot until released.
- The Surface Operations Manager (or alternate) is responsible for all field activities during a Surface emergency – maintenance and operations
- The Emergency Response Team, supported by the operators, and guided by the Shift Supervisor will respond to the emergency conditions
- The General Manager (or alternate) assumes the role of Incident Commander

SURFACE OPERATIONS MANAGER (ALTERNATE: CP PRODUCTION MANAGER)

Overview of Responsibilities:

INDEX

- Co-ordinate first line response during a Surface emergency.
- Maintain control and isolation of operational areas affected by the emergency.
- Oversee rescue and response operations.
- Maintain flow of information to the Incident Commander

Actions Required:

- If an evacuation has been initiated, proceed immediately to the parking lot to conduct roll call for Surface and Maintenance employees (this can be done by the Site Supervisor)
Note: The roll call document will be printed out at the Security printer by Security when the evacuation alarm is sounded.
- Initiate search for any missing employees, based on the roll call
- Ensure that First Aid is rendered to any injured employees
- Carry out an initial situational assessment to determine the nature and extent of the emergency

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- Plan the initial response to the emergency in consultation with the Incident Commander, and initiate the necessary actions
- Assemble mechanical and electrical support crews as required by the initial response plan.
- Advise the Mine Operations Manager and/or the Mine Captain of any potential hazard to the headframe or mine crews working underground
- Report to the Incident Commander on the emergency and inform him of actions that have been initiated, and request additional resources as necessary
- With the Shift Supervisor, direct and control emergency response activities in the field, continually assessing the situation.

EMERGENCY RESPONSE TEAM

Overview of Responsibilities:

INDEX

The primary objectives of the Emergency Response Team are:

- Incipient stage fire response
- First aid response for injured employees
- Rope rescue for suspended employees and from elevated locations
- Confined Space Rescue
- Response to hazardous materials incidents

Regular training shall be conducted to achieve competence in these activities.

The Emergency Response team shall not conduct any activities underground.

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MINE EMERGENCY RESPONSE

INDEX

GUIDING PRINCIPALS

The guiding principles during any mine rescue shall be:

- Safety of the mine rescue team,
- Rescue and care of casualties,
- Extinguish or control fires,
- Restoration of the mine to normal operation.

RESPONSE OVERVIEW:

- The Mine Engineering Technician (or alternate) assumes the role of Director of Operations.
- The Mine Operations Manager (or alternate) is responsible for all field activities during the mine emergency
- The Surface Operations Manager (or alternate) is responsible for providing emergency maintenance services
- All available employees underground are evacuated to the mine refuge station, or assemble in the Mine Dry for roll call. Those in the Mine Dry remain there until released.
Under certain circumstances, there will be a site evacuation ordered, in which case employees shall assemble in the parking lot.
Note: The roll call document will be printed out at the Security printer by Security when the evacuation alarm is sounded.
- Essential mine services such as ventilation air, compressed air, fresh water supply or electrical power must not be altered or shut down.
Note: Restoration of power is permissible.
- A Fire control centre will be established in Mine Engineering office, if required.
- The Mine Rescue Training room is the assembly area for the Mine Rescue team
- The Mine Rescue Co-ordinator ensures that the rescue Team is prepared and equipped to go underground
- The Mine Rescue Team is briefed/debriefed by the Director of Operations.
- First team is to begin field test as soon as possible.

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- The Mine Dry will be used for standby and reserve team members.

DIRECTOR OF OPERATIONS (ALTERNATE: MINE CAPTAIN)

Overview of Responsibilities:

INDEX

- Co-ordinate first line response during an underground emergency.
- Conduct briefing/debriefing of Mine Rescue Team members.
- Oversee rescue operations.
- Maintain flow of information to the Incident Commander

Actions Required:

- Gather all relevant information about the situation that the individual reporting the emergency is aware of. This would include:
 - Name of individual reporting;
 - Location and phone number of individual reporting;
 - Location of the emergency;
 - Number of injuries (if any), and details;
 - Location of crews (if caller has this information).
- Initiate stench warning system to evacuate the mine if required
- Contact the hoistman to instruct the skiptender to come to surface after he has checked to assure the shaft is clear of any smoke and fumes, and it is determined that he can exit safely.
- Initiate the assembly of the Mine Rescue Team
- Contact the General Manager and report on the emergency and inform him of whatever actions have already been initiated.
- Request the Surface Operations Manager to assemble mechanical and electrical support crews as required
- Advise the Surface Operations Manager and Chemical Plant Production Manager of any potential hazard – smoke up the shaft for example.
- Obtain names and information from those who witnessed the emergency.

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- Make available the names of the following employees on shift:
 - Trained Mine Rescue personnel;
 - Electricians;
 - Miners;
 - Mechanics.
- If a mine evacuation has taken place ensure that a roll call for mine employees is carried out.
- Establish a Fire control centre in the Mine Engineering office, if required.
- Proceed to the Mine Rescue Training Room to prepare plans and written instructions for the mine rescue team, and to co-ordinate rescue efforts. If off site, proceed directly to the mine after ensuring the steps above have been completed

MINE RESCUE CO-ORDINATOR

Actions required:

INDEX

- Report to the Mine Operations Manager or alternate for instructions.
- Contact Mine Rescue personnel as required and issue instructions to them to assemble at the Mine Rescue Training Room. Assure that appropriate back up mine rescue personnel is notified.
- Proceed to unlock mine rescue storage cabinets and start to organize mine rescue equipment.
- As mine rescue personnel report for duty, assign team positions and organize team equipment.
- Keep unauthorized individuals, or individuals not involved with the rescue operation, out of the Mine Rescue Training Room.

The nature and location of the fire or emergency will be explained to mine rescue personnel as soon as all the necessary details are known. Team members should be assembled and equipment should be field tested and ready for use as soon as possible so that rescue operations can commence quickly.

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MINE ENGINEER

Actions required:

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- Report to the Mine Operations Manager or alternate for instructions.
- Prepare engineering office for emergency operation. (clear work off tables, file unnecessary prints, and ensure office is in orderly state.)
- Stand by in engineering office for further instruction. Be prepared to make prints and/or layouts as required by the Mine Rescue crews, Mine Rescue Co-ordinator, Superintendents or General Manager.
- Consider that an "Emergency Control Centre" is to be set up in the Mine Engineering Office, locate the necessary supplies (flip charts, etc.), and co-ordinate set-up.

HOISTMAN

Actions required:

INDEX

- Obtain all the important information about the situation that the individual reporting the emergency is aware of. This would include:
 - Name of individual reporting;
 - Location and phone number of caller;
 - Location of emergency;
 - Number of injuries (if any), and details;
 - Location of crews (if caller has this information).
- Activate the compressed air stench warning system. Assign the activation of the vent fan stench warning systems as soon as possible.
- Notify Shift Supervision. (All Mine and Site Shift Supervisors are trained in stench warning system activation)
- Phone Skiptender and bring him to shaft collar after checking to ensure shaft is clear of smoke and fumes, and confirming that it is safe to do so.

Note: A trained skiptender may be provided with a self contained breathing apparatus and may begin hoisting men to surface if the shaft remains free of smoke and fumes.

- If a fire or life-threatening emergency exists on surface, activate the fire siren.
- Notify Mine Supervision as soon as possible.

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MINE RESCUE TEAM

Overview of Responsibilities:

INDEX

The three main objectives of the Mine Rescue Team are:

- Locate and rescue underground personnel that may be at risk.
- Locate and extinguish incipient or active fires or deal with other emergencies.
- Rehabilitate the mine as required.

Regular training shall be conducted to achieve competence in these activities

EMERGENCY MANAGEMENT COORDINATOR

Overview of Responsibilities:

INDEX

- Responsible for the development, implementation and maintenance of this Emergency Response Plan.
- Conducts an annual review of the Plan
- Coordinates with first responders concerning their activities under the Plan
- Coordinates with external contractors concerning their activities under the Plan
- Ensures employee training is carried out
- Plans and conducts exercises to test the Plan

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PROPANE EMERGENCY RESPONSE SUMMARY

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Criteria	Response
<p>LEVEL 0</p> <ul style="list-style-type: none"> • Small propane gas or liquid leak can be isolated by closing block valves • Injury potential is very low • Fire potential is very low 	<ul style="list-style-type: none"> • Note the wind direction and force • Close the storage tank isolation valves located under the tanks, if necessary and if safe to do so • Close other system valves as necessary to reduce or stop the gas release • Ensure that all sources of ignition are eliminated • Isolate the area immediately surrounding the leak for at least 100 meters, until gas is dispersed. Downwind gas concentration should be <10% LEL • Ventilate buildings as necessary • Call Site Supervisor
<p>LEVEL 1</p> <ul style="list-style-type: none"> • Significant propane gas or liquid leak can be isolated by closing block valves • Injury potential is low, but possible • Fire potential is low, but possible 	<ul style="list-style-type: none"> • Sound the emergency evacuation alarm • Note the wind direction and force • Close the storage tank isolation valves located under the tanks, if safe to do so • Close other system valves as necessary to reduce or stop the gas release • Isolate the area immediately surrounding the leak for at least 100 meters • Ensure that all sources of ignition are eliminated • Ventilate buildings as necessary • Call Superior Propane (204-488-4499 or 877-873-7467)
<p>LEVEL 2</p> <ul style="list-style-type: none"> • Significant propane gas or liquid leak can be isolated by closing block valves • Injury potential is significant • There is a fire or the fire potential is high 	<ul style="list-style-type: none"> • Sound emergency evacuation alarm • Note the wind direction and force • Close the storage tank isolation valves located under the tanks, if safe to do so • Close other system valves as necessary to reduce gas release • Isolate the area immediately surrounding the leak for at least 100 meters • Ensure that all sources of ignition are eliminated for at least 100 meters • Evacuate downwind at least 800 meters • Set up fire hose systems to control small fires if safe to do so (do not use Wajax pumps as they are a potential source of ignition) • Ventilate buildings as necessary • Call Bird River Fire Department (9-1-1) • Call Superior Propane (877-873-7467 or 204-488-4499). Request activation of the LPGERC response team if required
<p>LEVEL 3</p> <ul style="list-style-type: none"> • Propane gas or liquid leak cannot be isolated by closing block valves • There is damage to the storage tank • Injury potential is significant • There is a fire or the fire potential is high 	<ul style="list-style-type: none"> • Sound emergency evacuation alarm • Note the wind direction and force • (Pull the emergency cords to close the tank isolation valves) • Close other system valves as necessary to reduce gas release if safe to do so • Isolate the area immediately surrounding the tanks • Evacuate the area as follows: <ul style="list-style-type: none"> • 800 meters downwind for a large spill • 1600 meters in all directions for a tank involved in a fire • Ensure that all sources of ignition are eliminated • Set up fire hose systems to control small fires if safe to do so (do not use Wajax pumps as they are a potential source of ignition) • Ventilate buildings as necessary • Call Bird River Fire Department (9-1-1) • Call Superior Propane (877-873-7467 or 204-488-4499). Request activation of the LPGERC response team.

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1.0 PURPOSE

This procedure will ensure that preventive measures, adequate preparedness and an appropriate response to and recovery from emergency situations involving the uncontrolled release of propane liquid or gas are in place, in compliance with the Environmental Emergency Regulations SOR/2003-307

2.0 SCOPE

This procedure applies to all propane installations on the TANCO mine site

3.0 REFERENCES

Environmental Emergency Regulations SOR/2003-307

Implementation Guidelines for Part 8 of the Canadian Environmental Protection Act, 1999 – Environmental Emergency Plans

Superior Propane MSDS - Propane

CANUTEC - Emergency Response Guidebook 2008 Guide 115 – Gases - Flammable

CAN/CSA Z731-03 Emergency Preparedness and Response

CAN/CSA B149.1 Natural Gas & Propane Installation Code

CAN/CSA B149.2 Propane Storage & Handling Code

4.0 DEFINITIONS

BLEVE: boiling liquid expanding vapour explosion

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LPG: liquefied petroleum gas

LPGERC: Liquefied Petroleum Gas Emergency Response Corporation; a wholly owned subsidiary of the Propane Gas Association of Canada

RMA: Remedial Measures Advisor – a first line responder from the LPGERC

LEL: Lower Explosive Limit

UEL: Upper Explosive Limit

Flash point: The flash point of a flammable liquid is the lowest temperature at which it can form an ignitable mixture in air. At this temperature the vapor may cease to burn when the source of ignition is removed.

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5.0 PROPANE CHARACTERISTICS

Propane is a flammable gas with a boiling point of -42°C , and a flash point of -103.4°C . The LEL is 2.4%, the UEL 9.5%.

It is transported as a liquid with a density of 0.51 (water = 1), at a normal pressure of xx to xx psig

250 ml (1 cup) of liquid propane will generate 270 times its own volume of gas – 67.5 litres

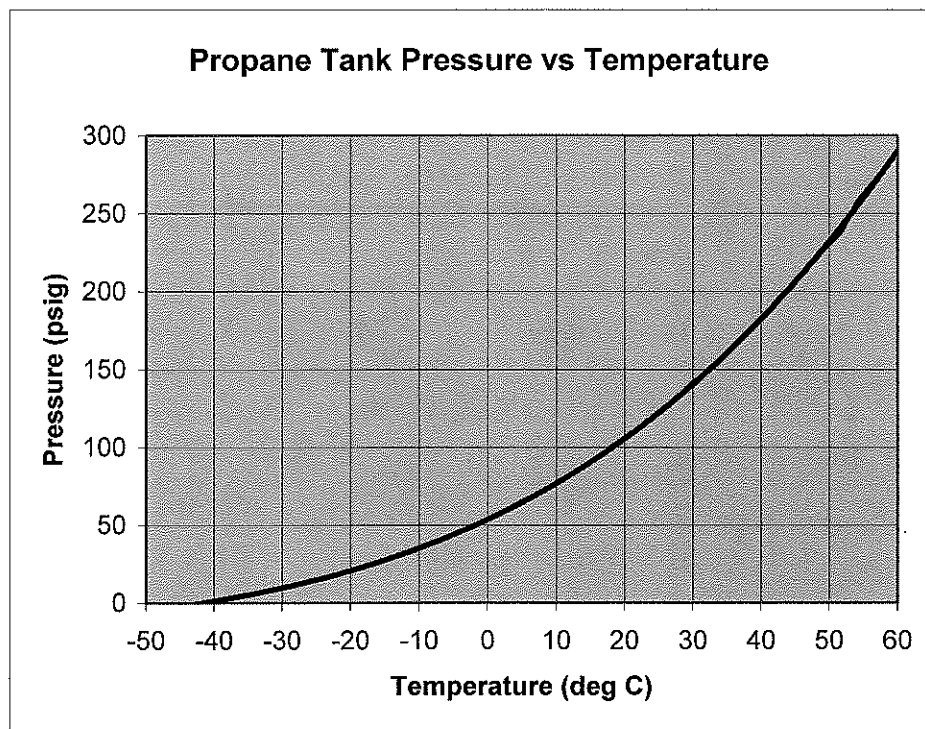
With a vapour density of 1.52 (air = 1) it is heavier than air, and will flow downhill to low lying areas. A source of ignition (spark or flame) will cause a flashback to the source of the leak.

As a gas it is a simple asphyxiant, as it reduces oxygen concentration in air.

Propane gas itself is odourless. Ethyl mercaptan is added to propane to give it its characteristic “boiled cabbage” smell.

Refer to the MSDS For further information

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6.0 POTENTIAL HAZARDS (from ERP Guide 115):

FIRE OR EXPLOSION

- **EXTREMELY FLAMMABLE.** INDEX
- Will be easily ignited by heat, sparks or flames.
- Will form explosive mixtures with air.
- Vapors from liquefied gas are initially heavier than air and will spread along the ground.
- Vapors may travel to source of ignition and flash back.
- Cylinders exposed to fire may vent and release flammable gas through pressure relief devices.
- Storage tanks and containers may explode when heated.
- Ruptured cylinders may rocket.

HEALTH

- Vapors may cause dizziness or asphyxiation without warning. INDEX
- Some may be irritating if inhaled at high concentrations.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire may produce irritating and/or toxic gases.

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7.0 SITE PROPANE STORAGE

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There are three site storage locations:

Location	No of Tanks	Tank Capacity	Location Capacity	Location Propane Capacity	Maximum Location Capacity [‡]
		USWG	USWG	kg Propane	kg Propane
Main Site	5	2,400	12,000	23,255	18,600
East Fan	4	2,460	9840	19,100	15,260
Chemical Plant*	1	30,000	30,000	58,138	46,500
Total					80,360

[‡] Maximum fill capacity for propane storage is 80%

* Largest single storage tank

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Insert site map showing location of propane storage

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8.0 CREDIBLE RELEASE/EVENT SCENARIOS

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1. Propane gas leak from piping – no fire
2. Propane gas leak from piping – with fire
3. Propane liquid leak from piping – no fire
4. Propane liquid leak from piping – with fire
5. Propane gas leak from storage tank – no fire
6. Propane gas leak from storage tank – with fire
7. Propane liquid leak from storage tank – no fire
8. Propane liquid leak from storage tank – with fire
9. Brush fire local to propane storage
10. Forest fire local to East Fan storage
11. Lightning strike
12. Tornado

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POTENTIAL CONSEQUENCES IN CASE OF ACCIDENT

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Inventory			Worst Probable Case Scenario	Alternate Case Scenario (More credible)	
			Distance to an overpressure of 1 psig (6.9 kPa)	Distance to a thermal radiation of 5 kW/m ²	Distance to an overpressure of 1 psig (6.9 kPa)
Tonnes	Litres	US Gallons	Instantaneous loss of containment	BLEVE	2" leak with wind 1.5 m/s and Stability F
4.5	8,876	2,345	285 m	265 m	165 m
6.0	11,834	3,127	310 m	290 m	165 m
7.5	14,793	3,908	335 m	310 m	165 m
9.0	17,751	4,690	355 m	330 m	165 m
34.6	68,138	18,000	555 m	495 m	165 m
46.5	91,717	24,232	610 m	545 m	165 m
57.6	113,563	30,000	660 m	595 m	165 m

Notes:

1. Thermal radiation of 5 kW/m² can cause second degree burns in 40 seconds
2. An overpressure of 1 psig (6.9 kPa) from an explosion can cause the collapse of the external walls of a house
3. A tank being exposed to a fire ruptured following a BLEVE. The fragments could theoretically reach 1600 m from the source.

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9.0 PREVENTION

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Installation: All storage and piping is installed in compliance with CSA/CAN B149 Natural Gas and Propane Installation Code. All systems were audited against this code in April 2007.

Preventive Maintenance: A preventive maintenance inspection schedule is in place and is followed for all the propane storage tanks and associated piping and vaporizers.

Grounding: grounding protection on all tanks is tested annually.

Cathodic Protection: on all underground lines is tested annually.

Protection from Vehicles: All propane storage tanks and piping are protected from vehicles.

Fire Protection: there are no combustible materials or sources of ignition within 25 ft of storage tanks. A 75 ft fire break is maintained around the East Fan storage area.

Employee Training: all employees responsible for the filling of propane cylinders are trained and certified in those procedures.

Empty Propane cylinders: are disposed of according to procedure (define), or are hydrottested.

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10.0 RESPONSE

GENERAL RESPONSE PRINCIPLES

Spill or Leak:

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- Stop the leak if this can be done without risk
- Evacuate everyone upwind and out of the vapour
- Evacuate spill or leak area immediately, upwind and out of the vapour for at least 100 m in all directions, 800 m if the spill or leak is large
- Keep unauthorised people away
- Do not touch or walk through spilled material
- Keep out of low lying areas (propane is heavier than air and will spread along the ground and accumulate in low or confined areas)
- Eliminate all possible sources of ignition, including those that do not normally pose a risk. (Propane may travel long distances along the ground and flashback to the source)
- Ensure that the leak area is well ventilated to prevent air concentrations from reaching explosive levels
- Ventilate closed spaces before entering

Fire:

INDEX

- DO NOT EXTINGUISH a leaking gas fire unless the leak can be stopped at source
- ALWAYS stay away from tanks engulfed in fire
- Evacuate everyone to a safe distance, 100 m minimum, 1600 m if the tank is exposed to flames or heat
- Stop the leak if this can be done without risk
- Fight the fire from maximum distance or use unmanned hose holders or monitor nozzles
- Cool containers with flooding quantities of water until well after the fire is out
- Do not direct water at the source of leak or safety devices; icing may occur
- Withdraw immediately in case of rising sound from venting safety devices

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- For a massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw and let the fire burn

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LEVEL 0 RESPONSE

May handle the event without escalating the response to the next level under the following circumstances: INDEX

- There is no damage to the storage tanks or cylinders or any other mechanical components
- The storage tank or cylinder is secure
- Zero to minimal release of product through mechanical fittings
- There is little or no risk of fire
- There is no danger to employees, contractors or visitors
- The propane can be safely managed using normal day to day processes

ACTIONS:

- Note the wind direction and force
- Close the storage tank isolation valves located under the tanks, if necessary and if safe to do so
- Close other system valves as necessary to reduce or stop the gas release
- Ensure that all sources of ignition are eliminated
- Isolate the area immediately surrounding the leak for at least 100 meters, until gas is dispersed. Downwind gas concentration should be <10% LEL
- Ventilate buildings as necessary
- Call Site Supervisor

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LEVEL 1 RESPONSE

May handle the event without escalating the response to Level 2 under the following circumstances:

INDEX

- There is no damage to the storage tanks or cylinders
- The storage tank or cylinder is secure with no release of propane
- Release of product through mechanical fittings may be controlled by closure of isolation valves
- There is some risk of injury to on site personnel.
- There is no fire, but the potential for fire exists.
- The cause of the release can be safely corrected using personnel from Superior Propane

ACTIONS:

- Sound the emergency evacuation alarm
- Note the wind direction and force
- Close the storage tank isolation valves located under the tanks, if safe to do so
- Close other system valves as necessary to reduce or stop the gas release
- Isolate the area immediately surrounding the leak for at least 100 meters
- Ensure that all sources of ignition are eliminated
- Ventilate buildings as necessary
- Call Superior Propane (204-488-4499 or 877-873-7467)

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LEVEL 2 RESPONSE – EXTERNAL RESOURCES REQUIRED

May handle the event without escalating the response to Level 3 under the following circumstances:

INDEX

- There is no damage to the storage tanks or cylinders
- The storage tank or cylinder is secure with no release of propane
- Release of product through mechanical fittings may be controlled by closure of valves
- There is a fire or a potential risk for fire to be started, including brush/forest fire
- There is significant potential risk of injury to on site personnel
- The propane can only be safely managed using personnel resources from Superior Propane and/or the Bird River Fire Department

ACTIONS:

- Sound emergency evacuation alarm
- Note the wind direction and force
- Close the storage tank isolation valves located under the tanks, if safe to do so
- Close other system valves as necessary to reduce gas release
- Isolate the area immediately surrounding the leak for at least 100 meters
- Ensure that all sources of ignition are eliminated for at least 100 meters
- Evacuate downwind at least 800 meters
- Set up fire hose systems to control small fires if safe to do so (do not use Wajax pumps as they are a potential source of ignition)
- Ventilate buildings as necessary
- Call Bird River Fire Department (345-1989 or 345-8685 (RCMP))
- Call Superior Propane (204-488-4499 or 877-873-7467)

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LEVEL 3 RESPONSE – EXTERNAL RESOURCES REQUIRED

The situation presents a clear danger to on site personnel and requires significant external resources for control. Potentially a catastrophic event in the making.

- Storage tanks or cylinders are damaged and releasing propane
- Propane gas is released from the tank relief valves INDEX
-
- Release of propane through mechanical fittings may not be controlled by closure of valves
- There is a fire or a high potential for fire to be started, local to the storage tanks or piping systems
- Risk of injury to on site personnel is high
- The propane can only be safely managed using personnel from Superior Propane, the Bird River Fire Department and the LPGERC

ACTIONS:

- Sound emergency evacuation alarm
- Note the wind direction and force
- (Pull the emergency cords to close the tank isolation valves)
- Close other system valves as necessary to reduce gas release if safe to do so
- Isolate the area immediately surrounding the tanks
- Evacuate the area as follows:
 - 800 meters downwind for a large spill
 - 1600 meters in all directions for a tank involved in a fire
- Ensure that all sources of ignition are eliminated
- Set up fire hose systems to control small fires if safe to do so (do not use Wajax pumps as they are a potential source of ignition)

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- Ventilate buildings as necessary
- Call Bird River Fire Department (345-1989 or 345-8685 (RCMP))
- Call Superior Propane (877-873-7467 or 204-488-4499). Request activation of the LPGERC response team

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11.0 SUPERIOR PROPANE/LPGERC RESPONSE

Superior Propane maintain a Technician on call 24/7 in Winnipeg. A call to Superior will bring a technician on site within three hours. INDEX

If the incident is obviously outside the capabilities of the Superior Propane technician and the Bird River Fire Department combined, then a request must be made to Superior Propane to activate the LPGERC response team immediately (only Superior Propane can activate this response capability).

The LPGERC will dispatch a Remedial Measures Advisor (RMA) from Winnipeg, who is also able to be on site within three hours. The RMA is authorized to activate the full LPGERC response capability.

The RMA and LPGERC Team will work under the direction of the Incident Commander.

Costs associated with the LPGERC response will be borne by TANCO

12.0 REPORTING

When an environmental emergency occurs in respect of propane, either a release or fire, the event shall be reported immediately to the Operations Branch of Manitoba Conservation at 945-4888 (24 hr)

Written reports shall be sent to the Director Environmental Protection, Prairie & Northern Region, Environment Canada.

13.0 RECOVERY

Due to the inherent physical characteristics of propane, recovery activities are limited to the removal of debris such as tanks or other equipment

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PROPANE EMERGENCY RESPONSE SUMMARY

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Criteria	Response
<p>LEVEL 0</p> <ul style="list-style-type: none"> • Small propane gas or liquid leak can be isolated by closing block valves • Injury potential is very low • Fire potential is very low 	<ul style="list-style-type: none"> • Note the wind direction and force • Close the storage tank isolation valves located under the tanks, if necessary and if safe to do so • Close other system valves as necessary to reduce or stop the gas release • Ensure that all sources of ignition are eliminated • Isolate the area immediately surrounding the leak for at least 100 meters, until gas is dispersed. Downwind gas concentration should be <10% LEL • Ventilate buildings as necessary • Call Site Supervisor
<p>LEVEL 1</p> <ul style="list-style-type: none"> • Significant propane gas or liquid leak can be isolated by closing block valves • Injury potential is low, but possible • Fire potential is low, but possible 	<ul style="list-style-type: none"> • Sound the emergency evacuation alarm • Note the wind direction and force • Close the storage tank isolation valves located under the tanks, if safe to do so • Close other system valves as necessary to reduce or stop the gas release • Isolate the area immediately surrounding the leak for at least 100 meters • Ensure that all sources of ignition are eliminated • Ventilate buildings as necessary • Call Superior Propane (204-488-4499 or 877-873-7467)
<p>LEVEL 2</p> <ul style="list-style-type: none"> • Significant propane gas or liquid leak can be isolated by closing block valves • Injury potential is significant • There is a fire or the fire potential is high 	<ul style="list-style-type: none"> • Sound emergency evacuation alarm • Note the wind direction and force • Close the storage tank isolation valves located under the tanks, if safe to do so • Close other system valves as necessary to reduce gas release • Isolate the area immediately surrounding the leak for at least 100 meters • Ensure that all sources of ignition are eliminated for at least 100 meters • Evacuate downwind at least 800 meters • Set up fire hose systems to control small fires if safe to do so (do not use Wajax pumps as they are a potential source of ignition) • Ventilate buildings as necessary • Call Bird River Fire Department (9-1-1) • Call Superior Propane (877-873-7467 or 204-488-4499). Request activation of the LPGERC response team if required
<p>LEVEL 3</p> <ul style="list-style-type: none"> • Propane gas or liquid leak cannot be isolated by closing block valves • There is damage to the storage tank • Injury potential is significant • There is a fire or the fire potential is high 	<ul style="list-style-type: none"> • Sound emergency evacuation alarm • Note the wind direction and force • (Pull the emergency cords to close the tank isolation valves) • Close other system valves as necessary to reduce gas release if safe to do so • Isolate the area immediately surrounding the tanks • Evacuate the area as follows: <ul style="list-style-type: none"> • 800 meters downwind for a large spill • 1600 meters in all directions for a tank involved in a fire • Ensure that all sources of ignition are eliminated • Set up fire hose systems to control small fires if safe to do so (do not use Wajax pumps as they are a potential source of ignition) • Ventilate buildings as necessary • Call Bird River Fire Department (9-1-1) • Call Superior Propane (877-873-7467 or 204-488-4499). Request activation of the LPGERC response team.

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[LINK TO REPORTING CRITERIA SPREADSHEET](#)

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SPILL RESPONSE – GENERAL COUNTERMEASURES

NOTE: In dealing with spills, the safety of personnel is the primary concern. Employees are **NOT** expected to take risks that could potentially result in personal injury, regardless of the severity of the spill.

In the event of a significant bulk spill the following measures are to be taken immediately:

- Ensure the safety of onlookers as necessary by stationing a person nearby or by flagging the spill area with yellow warning tape.
- Evacuate personnel upwind of the spill for formic acid or propane ([link to propane spill response](#))
- Don the appropriate personal protective equipment for the nature of the spill:
 - Hard hat
 - Chemical Splash Goggles
 - Faceshield
 - Raingear
 - Rubber Boots
 - Gauntlet Style Rubber Gloves
 - SCBA or SABA for formic acid
- Attempt to stop, contain or divert the spill to a less sensitive area, if possible and if safe to do so.
- Collect as much as possible of the spilled material into one area to facilitate recovery or pumping of the liquid.
- Take a sample of the spilled material.
- Arrange for a suitable receptacle, a tote or drum for example, and pump the spilled material into it.
- If an acid spill, neutralise remaining acid with soda ash or lime.
WARNING: use of soda ash will cause oxygen depletion in an enclosed or unventilated space due to the release of carbon dioxide. This may cause workers to collapse from insufficient oxygen. This will not happen when using lime

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NOTE: A spill kit containing soda ash and Absorball is maintained in the CP Storage dome.

- Scoop up as much contaminated material as possible, and store in a secure, contained location for later disposal.

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CHEMICAL SPILL REPORTING

TANCO INTERNAL SPILL REPORTING:

Notification of any uncontained and/or significant spill must be made immediately to:

- The Shift Supervisor, and
- The relevant Department Manager, and
- The Facility General Manager (for all spills), and
- The Safety/Environmental Manager

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REGULATORY REPORTABLE SPILLS:

Spills may require immediate reporting under three regulations

Manitoba Regulation 439/87 – Environmental Accident Reporting Regulation: this covers spills of materials classified as dangerous goods from any point in the process. This includes any spills of dangerous goods from the time they enter the site, and in the case of outgoing product, to the time they leave the site. Reports shall be made to:

- The Department of Conservation and Workplace Safety & Health at 204-945-4888, OR
- The RCMP or the Fire Department

Federal Regulation SOR/2001– 286 – Transportation of Dangerous Goods

Regulation: this covers reporting of spills of dangerous goods from the point of product loading (e.g. cesium hydroxide drum filling) to leaving the site, and from arrival on site through to the point of entry into the process (e.g. potassium hydroxide drum unloading), but does not cover spills from the process itself. Reports shall be made to:

- The Department of Conservation at 204-945-4888 AND
- The RCMP or the Fire Department

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NOTE: The reporting quantity criteria are not the same for the two regulations noted above.

Federal Regulation SOR/2003– 307 - Environmental Emergency Regulations: covers the reporting of any environmental emergency (release, spill or fire) related to a listed material. Propane is the sole material on this list. Reports shall be made to:

- The Department of Conservation at 204-945-4888

Written follow up investigation reports are required in all three cases.

[Link to Spill Reporting Criteria](#)

CORPORATE SPILL REPORTING

Reportable spills as defined above must be reported within 24 hours of occurrence to:

- Corporate V.P. SH&E (Boston)

Spills that are reportable to Manitoba Conservation where the cost of fines, remediation and/or emergency response has the potential to be greater than \$100,000 US must be reported as soon as possible, and within 24 hours of occurrence to:

- Corporate V.P. SH&E (Boston)

Vice President and General Manager EMEA **INDEX**

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PROCESS SAFETY EVENTS (PSE)

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SIGNIFICANT PROCESS SAFETY EVENT

A **significant Process Safety Event** is one that results in:

- An equipment or plant shutdown of greater than five days, or
- Equipment or plant damage of more than \$100,000 (USF) or
- A recordable incident or ENC

PROCESS SAFETY EVENT

An incident involving equipment in the following areas: Raw Material, Storage, Utilities, Production or Product Storage & Packing; which leads to any of the following:

- Explosion,
- Fire,
- Overfilling Process Equipment or Storage Tanks,
- Loss of Containment
- Abrupt Mechanical Failure. (Note definitions below)

Examples include:

- Rupture or significant failure of process equipment. Includes process equipment internals as well (heat exchanger tubes, boiler tubes, etc.)
- Overfilling process equipment or storage tanks (corrosive, flammable, caustic, etc. liquids; in process materials; intermediates or products)
- Releases of flammable (propane), toxic (sulphuric, formic acids, etc.), inert (carbon dioxide, nitrogen, argon) gases or liquids (including steam, hot condensate, etc.) from piping or equipment (regardless of amount) caused by loss of containment integrity, i.e. cracks, holes, gasket blowout
- Drips/releases of flammable (propane), toxic (sulphuric, formic acids, etc.), oxygen or inert (carbon dioxide, nitrogen, argon) gases or liquids (including steam, hot condensate, etc.) from flanges, gaskets, or seals (>5kgs over a 1 hour period)
- Opening of pressure relief devices with any of the following - liquid carryover, discharge to unsafe location, requiring evacuation, or shelter in place.

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PROCESS SAFETY NEAR MISS

An incident that had no consequence, but could have resulted in a PSE. Examples include (but are not limited to):

- Opening of a rupture disc / pressure relief valve
- UPS system malfunction
- Failure of a process related safeguard
- Drips from joints, flanges, gaskets, or seals (<5kgs)

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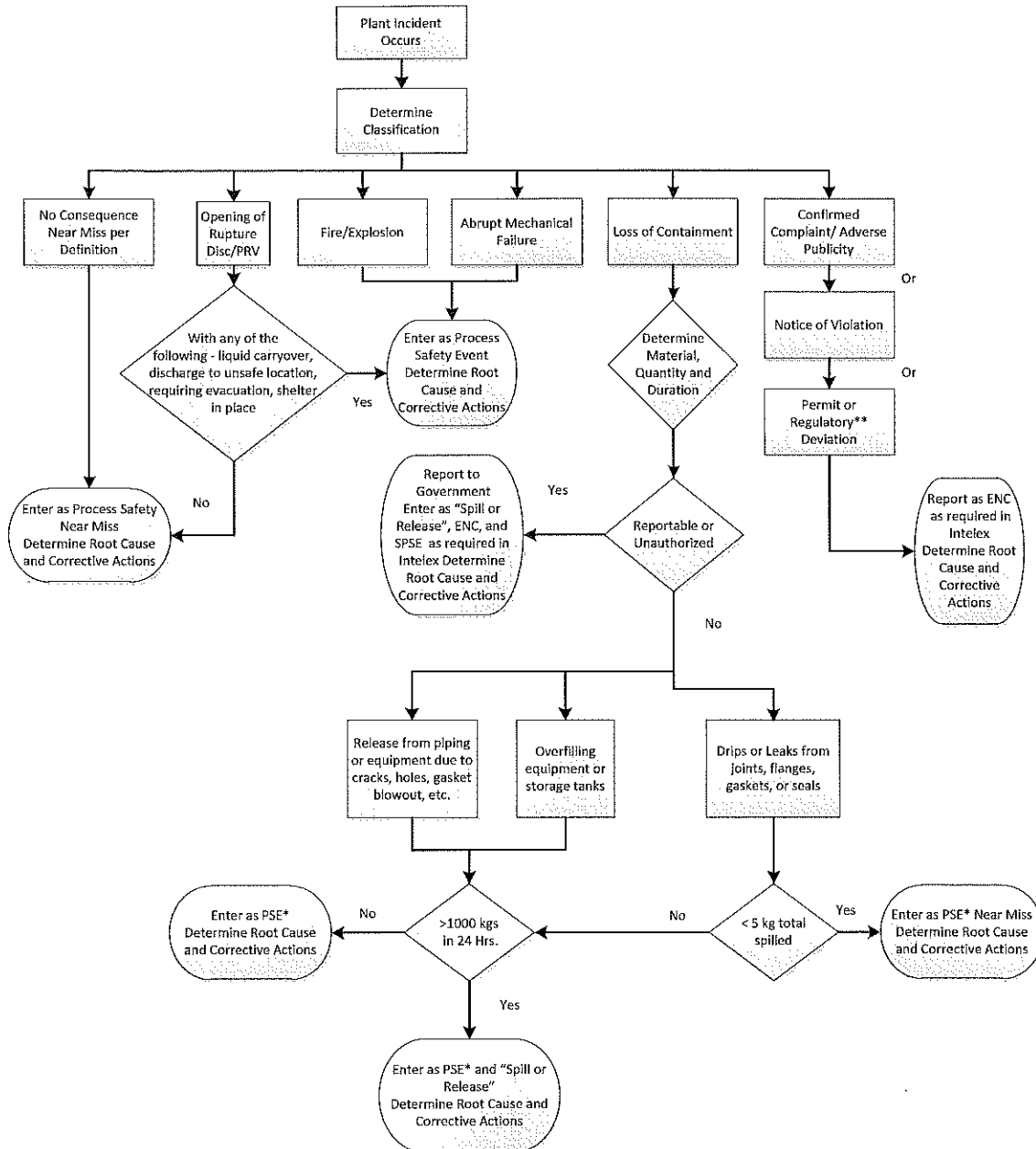
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Intelix Reporting Flow Chart – Environmental and PSE Incidents



* Flammable (i.e., Natural Gas, Hydrogen, LPG, Tail Gas), toxic (i.e., petroleum, feedstock, silanes, caustics, HCl, Cl₂, CO, etc.), oxygen or inert (i.e., Nitrogen, Argon) gases or liquids (including steam, hot condensate, etc.)
 ** Case specific review at USEPA Title V Permitted Facilities.
 Significant PSE - Any PSE that results in any of the following: equipment / unit / plant shutdown greater than 5 days or equipment / unit / plant damage greater than USD 100,000 or a Recordable Incident or ENC

Chemical Plant
Maximum Inventory of Process Chemicals

Process Chemical	Container	Maximum Inventory	Units
Raw Materials:			
93% Sulphuric Acid	Tank T-1	73,200	L
Quicklime	Silo S-1	2,900	cu ft
Pollucite	Silo S-2	60	tonnes
85% Formic Acid	Tank T-2	46,200	L
Barium Carbonate	Bulk Bag	100	tonnes
Carbon Dioxide	Bulk Tank	14,500	kg
45% Potassium Hydroxide	Drum	3,000	kg
93% Sulphuric Acid	Drum	3,000	kg
85% Formic Acid	Drum	4,800	kg
Citric Acid	Bag	3	tonnes
50% Aluminium Sulphate	Tank 9015	29,500	L
Hydrated Lime	Bulk Bag	36	tonnes
Barium Hydroxide	Bulk Bag	40	tonnes
35% Hydrogen Peroxide	Drum	275	kg
50% Hydrogen Peroxide	IBC	12,000	kg
35% Hydrochloric Acid	Drum	4,800	kg
In Process			
5% Cesium Sulphate	Tank T-12, T-22	113,300	L
Slaked Lime	Tank T-3	35,300	L
Barium Formate	Tank T-16	25,500	L
Cesium Formate 2.05 SG	Tank T-30	40,000	L
Cesium Formate 2.15 SG	Tank T-8, T-7B	27,000	L
50% Cesium Sulphate	Tank 9285, T-15	24,700	L
50% Cesium Hydroxide	Tank 9270, 9275	49,400	L
50% Cesium Carbonate	Tank 9270, 9275	49,400	L
Product:			
Cesium Formate	IBC	50	IBC
Cesium Sulphate	IBC	16	IBC
Cesium Hydroxide	IBC	16	IBC
Cesium Carbonate	IBC	16	IBC
Cesium Chloride	IBC	16	IBC

Tantalum Mining
Maximum Inventory of Dangerous Goods

UN #	Chemical	Container	Location	Maximum Inventory	Units
1013	Carbon Dioxide	Bulk Tank	CP	14,500	kg
1075	Propane - CP	Bulk Tank (1)	Site	46,500	kg
1075	Propane - East Site	Bulk Tank (4)	Site	15,260	kg
1075	Propane - Main Site	Bulk Tank (5)	Site	18,600	kg
1202	Diesel	Tank	Site	9,901	L
1203	Gasoline	Tank	Site	4,519	L
1760	50% Aluminium Sulphate	Tank 9015	CP	29,500	L
1779	85% Formic Acid	Tank	CP	46,200	L
1789	35% Hydrochloric Acid	Drum	CP	4,800	kg
1814	45% Potassium Hydroxide	Drum	CP	3,000	kg
1830	93% Sulphuric Acid	Tank	CP	73,200	L
1830	93% Sulphuric Acid	Tank	Mill	25,000	L
2014	35% Hydrogen Peroxide	Drum	CP	275	kg
2681	50% Cesium Hydroxide	Tank 9270, 9275	CP	49,400	L
	Barium Carbonate	Bulk Bag	CP	100	tonnes
	Barium Hydroxide	Bulk Bag	CP	40	tonnes

Spill Reportable Quantities - General

Class	Description	Spill Reportable Quantity M.R. 439/87	Spill Reportable Quantity TDG Regulations
1	Explosives	All	Any quantity that could pose a danger to public safety or 50 kg
2.1	Compressed Gas (Flammable)	100 L	Any quantity that could pose a danger to public safety or any sustained release of 10 minutes or more
2.2	Compressed Gas	100 L	
2.3	Compressed Gas (Toxic)	All	
2.4	Compressed Gas (Corrosive)	All	
3	Flammable Liquids	100 L	200 L
4	Flammable Solids	1 Kg	25 kg
5.1 Packing Group I & II	Oxidizer	1 Kg or 1 L	50 kg or 50 L
5.1 Packing Group III	Oxidizer	50 Kg or 50 L	
5.2	Organic Peroxide	1 Kg or 1 L	1 kg or 1 L
6.1 Packing Group I	Acute Toxic	1 Kg or 1 L	5 kg or 5 L
6.1 Packing Group II & III	Acute Toxic	5 Kg or 5 L	
6.2	Infectious	All	Any quantity that could pose a danger to public safety or 1 kg or 1 L
7	Radioactive	Any discharge	Any quantity that could pose a danger to public safety
8	Corrosive	5 Kg or 5 L	5 kg or 5 L
9.1	Miscellaneous (not PCB)	50 Kg	25 kg or 25 L
9.1	PCB Mixtures	500 grams	
9.2	Aquatic Toxic	1 Kg or 1 L	
9.3	Wastes (Chronic Toxic)	5 Kg or 5L	
	Required Spill Reporting:	The Department of Conservation and Workplace Safety & Health at 204-945-4888, OR The RCMP or the Fire Department	IMMEDIATE REPORTING REQUIRED The Department of Conservation at 204-945-4888 AND The RCMP OR the Fire Department

Chemical Spill - Reportable Quantities

Common Name	Shipping Name	UN #	Class	Packing Group	Spill Reportable Quantity M.R. 439/87	Spill Reportable Quantity TDG Regulations
Acetic Acid (80%)	Acetic Acid Solution	2790	8	II	5 kg or 5 L	5 kg or 5 L
Caustic Soda (25%)	Sodium Hydroxide Solution	1824	8	II	5 kg or 5 L	5 kg or 5 L
Cesium Hydroxide (50%)	Caesium Hydroxide Solution	2681	8	II	5 kg or 5 L	5 kg or 5 L
Carbon Dioxide	Carbon Dioxide Refrigerated Liquid	2187	2.2		100 L	Any quantity that could pose a danger to public safety or any sustained release of 10 minutes or more
Aluminium Sulphate	Corrosive Liquid, N.O.S.	1760	8	III	5 kg or 5 L	5 kg or 5 L
Formic Acid	Formic Acid	1779	8	II	5 kg or 5 L	5 kg or 5 L
Diesel	Fuel Oil; Diesel Fuel	1202	3	III	100 L	200 L
Gasoline	Gasoline	1203	3	II	100 L	200 L
Hydrochloric Acid	Hydrochloric Acid Solution	1789	8	II	5 kg or 5 L	5 kg or 5 L
Hydrogen Peroxide (35%, 50%)	Hydrogen Peroxide, Aqueous Solution	2014	5.1(8)	II	1 kg or 1 L	50 kg or 50 L
Nitric Acid (68%)	Nitric Acid	2031	8	II	5 Kg or 5 L	5 kg or 5 L
Propane	Liquefied Petroleum Gases Petroleum Gases, Liquefied	1075	2.1		100 L	Any quantity that could pose a danger to public safety or any sustained release of 10 minutes or more
Phosphoric Acid	Phosphoric Acid, Liquid	1805	8	III	5 kg or 5 L	5 kg or 5 L
Caustic Potash	Potassium Hydroxide, Solution	1814	8	II	5 kg or 5 L	5 kg or 5 L
Sulphuric Acid	Sulphuric Acid Sulfuric Acid	1830	8	II	5 kg or 5 L	5 kg or 5 L
Barium solutions >100 mg/L Ba	Leachable Toxic Substance		9	III	5 kg or 5 L	

Chemical Spill - Reportable Quantities

Common Name	Shipping Name	UN #	Class	Packing Group	Spill Reportable Quantity M.R. 439/87	Spill Reportable Quantity TDG Regulations
WASTES:						
Used Lubricating Oil	Waste Environmentally Hazardous Substance, Liquid, N.O.S. (Lead)	3082	9	III	5 Kg or 5L	
Used oil filters (uncrushed)	Waste Environmentally Hazardous Substance, Solid, N.O.S. (Lead)	3077	9	III	5 Kg or 5L	
Lead-Acid Batteries	Waste Batteries, Wet, Filled with Acid	2794	8	III	5 kg or 5 L	5 kg or 5 L
Used Varsol solvent	Waste Petroleum Distillates N.O.S.	1268	3	III	100 L	200 L
Used Aerosol Cans	Waste AEROSOLS, flammable	1950	2.1	-	100 L	
Waste Oil based Paint	Waste Paint	1263	3	III	100 L	200 L
Asbestos Containing Waste	Waste Asbestos, White?	2590?	9	III		
NiCad, NiMH & alkaline Batteries	Waste Batteries, dry, containing potassium hydroxide solid	3028	8	III	5 kg or 5 L	5 kg or 5 L