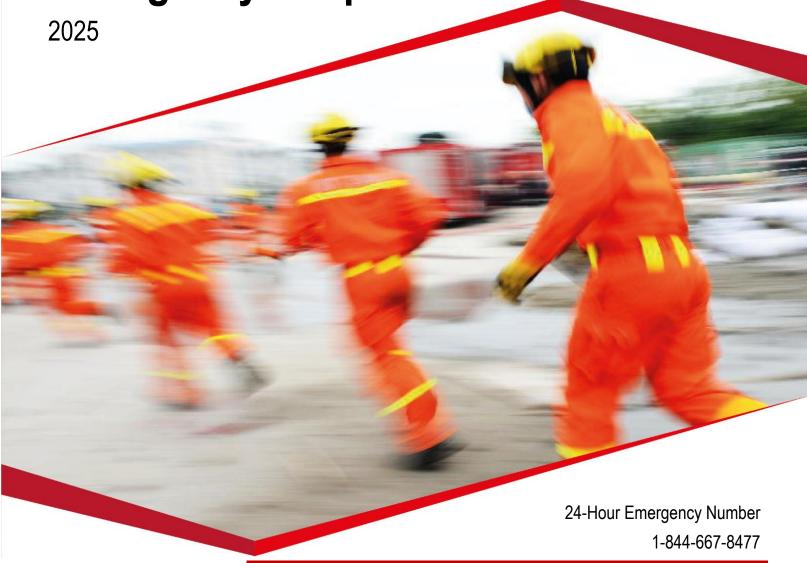


Non-Confidential

Core & Tupper Main
Emergency Response Plan



AER Emergency Number 1-800-222-6514 BCER Emergency Number 1-800-663-3456



CORE EMERGENCY RESPONSE PLAN

Prepared by:





2025



MANAGEMENT OF CHANGE LOG

Annual Review Date: April 29, 2025	
Next Annual Review Date: April 29, 2026	
Date of Update Inserted Into ERP:	
Signature:	

Date Completed (DD/MM/YYYY)	Revision #	Section(s) Updated	Description	Revision ¹	Annual Update ²		
		Admin	Updated entire section.				
		Section 1	The Initial Response Section has been relocated to be Section 1. Updated template.				
		Section 2	The EOC Telephone List / Policy Statement has been relocated to be Section 2.				
		Section 3	Updated the Field Response Team – Roles and Responsibilities entire section.				
		Section 6	6.5.3 Updated the Command Centre Communication Flow Diagram.6.7.1 Updated the External Notification Flow Chart.				
29/April/2025	Section 7 7.23.2 Updated ERG date 7.31.6 Updated "After an Earthquake" link	3	5 3	Section 7			\boxtimes
		9.2.7 Updated Fire Hazard and NOTAM to NOTAM					
	Section 10 The Appendix Section has been relocated to be Section 10. Section 11 Added Administration Forms.		The Appendix Section has been relocated to be Section 10.				
			Added Administration Forms.				
		Section 12	The Operations Section has been relocated to be Section 12. Refer to the Site Specific Registered Supplement for the applicable MOC Log.				

2025 Page iii of v



Date Completed (DD/MM/YYYY)	Revision #	Section(s) Updated	Description	Revision ¹	Annual Update ²	
		Admin	Updated entire section.			
		Section 2	Updated Field Section name.			
		Section 3	Updated Command Structure Chart and Roles & Responsibilities.			
		Section 4	Updated Command Structure Chart and Roles & Responsibilities.			
29/April/2024	2	Section 6	Updated Command Structure Chart.		\boxtimes	
			Section 9	9.1 Updated AB Jurisdictional section.		
				Section 9	9.2 Updated BC Jurisdictional section.	
	Section 11 Removed AB First Call Communication Form.		Removed AB First Call Communication Form.			
		Section 11	Updated ICS Form with new Command Structure Chart.			
	Admin Updated entire section. 9.1 Updated Alberta Jurisdictional section. 9.2 Updated BC Jurisdictional section		Updated entire section.			
12/March/2024]	\boxtimes		
12/1VIarch/2024			9.2 Updated BC Jurisdictional section		X	
		Section 11	Updated BC Post Incident Report Form			
30/April/2023	New	All	New ERP Document.		\boxtimes	

¹ Revision: An interim revision to the ERP when significant changes occur to Company personnel or infrastructure (drilling, facilities, pipelines). A revision does not replace the requirement for an annual update.

2025 Page iv of v

² **Annual Update**: A comprehensive update to all sections of the ERP. The entire document is reviewed and updated to ensure current distribution list, emergency telephone list, roles and responsibilities, mutual aid agreements, response agencies information, government support information, asset tables, safety equipment, and maps. In a Registered Site-Specific ERP, the stakeholder database is also verified, a hazard assessment is conducted, and area user contact information is updated.



DISCLAIMER

The Emergency Response Plan has been designed to provide a series of guidelines for responding to emergency situations. This plan identifies, defines and recommends actions for dealing with incidents that could impact facilities within the plan. This plan provides a logical and responsible approach to classifying and responding to incidents.

Verification of the information contained in this plan is the sole responsibility of NorthRiver. Black Gold Emergency Planners Inc. does not accept any liability arising from the implementation or use of this plan. The Emergency Response Plan must be available on site. Unauthorized reproduction is strictly prohibited.

This plan is administered by:



Mountainview Business Campus Suite 212, 4000 – 4th Street SE Calgary, AB T2G 2W3

> Office: 403-216-7052 Fax: 403-216-7053

2025 Page v of v



TABLE OF CONTENTS

TABL	E OF CONTENTS	
1.0	INITIAL RESPONSE	1
2.0	EOC TELEPHONE LIST / POLICY STATEMENT	1
2.1	Corporate Contact List	1
2.2	Emergency Management Policy Statement	
3.0	FIELD RESPONSE TEAM - ROLES AND RESPONSIBILITIES	1
3.1	Command Chart	1
3.2	First Responder	
3.3	Incident Commander	
3.4	Operations Section Chief	
3.5 3.6	Public Protection Group Supervisor On-Site Group Supervisor	
3.7	Staging Area Manager	
3.8	Site Safety Officer	
3.9	Liaison Officer	
3.10		
3.11	3	
3.12	3	37
3.13		
4.0	EOC INCIDENT COMMAND STRUCTURE - ROLES AND RESPONSIBILITIES	
4.1	EOC Command Chart	
4.2	EOC Director	
4.3 4.4	Operations and Technology SupportRegulatory / Government Liaison	5
4.5	Media / Public Relations	
4.6	Business Impact Support	
4.7	Admin Support	
4.8	EHSS Support	9
5.0	COMMAND CENTRES AND RESPONSE LOCATIONS	1
5.1	On-Site Command Post (OSCP)	1
5.2	Incident Command Post (ICP)	
5.3	Staging Area	
5.4	Reception Centre	
5.5	Helibase	
5.6 5.7	Helispot Emergency Operations Centre (EOC)	
5. <i>1</i> 5.8	Government Command Posts	
6.0	CRISIS COMMUNICATION PLAN	
6.1 6.2	Purpose of the Crisis Communication Plan Crisis Communication Policy	
6.3	Crisis Communication Plan Objectives	2
6.4	Crisis Communication Audiences	
6.5	Crisis Communication Process	
6.6	Internal Communication and Command Centres	
6.7	External Communication	8



6.8 6.9	Media CommunicationSocial Media	17
6.10 6.11	Mutual Aid Agreements Emergency Answering Procedures	
	RESPONSE ACTION PLANS	
7.0 iv	Purpose	
7.1	Incident Site Worker Protection	
7.3	Personal Protective Equipment (PPE)	
7.4	Protection Levels	
7.5	Preparing a Health and Safety Plan	
7.6	Health and Safety Plan	
7.7	Public Safety and Protection	4
7.8	Air Quality Monitoring	
7.9	Determining the Response Zone Using Monitoring Equipment	
7.10	Sour Gas Release	7
7.11	Sweet Gas (Hydrocarbon) Release	
7.12	Hydrocarbon Exposure	
7.13	Entry Procedures into the EPZ	
7.14	Roadblocks	
7.15	Shelter in Place	
7.16	Liquids Release – Site/Facility	
7.17	Spill Contingency Plan	
7.18 7.19	Electrical Incident Response	
7.19	General Fire ResponseFacility Fires	
7.20	High Vapour Pressure (HVP) Release	
7.21	Pressurized Fuel Fire	
7.23	Propane or LPG Tank Fire	
7.24	Transportation Incident	
7.25	Product <i>Transportation</i> Incident	
7.26	Hazardous Materials Incident	
7.27	Injury/Fatality	
7.28	Air Ambulance	53
7.29	Missing Worker	56
7.30	Severe Weather Incidents	56
7.31	Wildlife	
7.32	Site Security	
8.0 P	OST EMERGENCY	1
8.1	Overview	1
8.2	Responsibility	
8.3	Critical Incident Stress Debriefing (CISD)	
8.4	Public Assistance and Support	
8.5	Investigation	
8.6	Clean Up and Repair	
8.7	Post-Incident Notifications	
8.8	Incident Documentation/Company Records	
8.9	Post-Incident Debriefing and Incident Assessment	
8.10	Post-Incident Reports	7



8.11	Cause and Liability Report	
8.12	Incident Investigations	
9.0	JURISDICTIONAL REQUIREMENTS	1
9.1	Spill & Release Reporting Requirements	1
9.2	ALBERTA	1
9.3	BRITISH COLUMBIA	
9.4	CANADIAN FEDERAL GOVERNMENT	
9.5	CANADA ENERGY REGULATOR	1
10.0	APPENDIX	1
10.1	Properties of Hydrogen Sulphide (H ₂ S)	
10.2	Properties of Sulphur Dioxide (SO ₂)	
10.3	Legal Survey Description (LSD) Reference Tool (Alberta)	1
10.4	National Topographic System (NTS) Reference Tool	
10.5	HVP - Proposed EPZ Distances for Selected Diameters	
10.6	Conversion Table	
10.7	NATO Phonetic Alphabet	
10.8	Glossary	5
11.0	FORMS	1
11.1	Initial emergency Response Forms	2
11.2	Jurisdictional Forms	
11.3	ICS Forms	30
11.4	ERP Forms	
11.5	Stakeholder Forms	
11.6	Media Forms	
11.7	Administration Forms	70
12.0	OPERATIONS	1



1.0 INITIAL RESPONSE

Initial Response Flowchart



HOW WAS THE COMPANY ALERTED?

VISUAL
IDENTIFICATION BY
ON SCENE
PERSONNEL



PERSONNEL ALERTED BY AUTOMATED ALARM(S)



First On Scene Checklist

Refer to Page 2 of Section 1



Six Step Initial Response Guide

Refer to Page 3 of Section 1



FIRST ON SCENE CHECKLIST					
INCIDENT PRIORITY	 □ Protection of Responder and/or Worker. □ Protection of the Public. □ Protection of the Environment and/or Property. □ Reputation of the Company. 				
FIRST ON SCENE ACTIONS	 □ Always Assume Danger and Resist the Urge to Rush In Evacuate from any hazardous area any time you believe that the incident: Has the potential to create. Has the potential to migrate off-site or cause significant pollution. Exceeds the facility's response capabilities at that time. Is a significant natural disaster, fire, or act of subversion. Is large or potential to become out of control. Presents an unknown risk or hazard. □ Sound alarm, call for help, or contact emergency services. 				
RESCUE OPERATIONS	 □ Initiate rescue operations (If necessary AND safe to do so) ■ Use the Buddy System. ■ Don all personal protection equipment (PPE). ■ Rescue victim to a safe area/revive victim. ■ Administer appropriate worksite First Aid procedures. Confirm emergency services have been contacted 				
ON-SITE COMMAND, CONTROL AND CONTAINMENT ACTIONS	Senior most trained personnel on-scene become the Incident Commander If Ife safety is assured, take actions to gain control/isolate/de-pressure the incident following safe work procedures: Inspect the site from a distance. Ensure appropriate personal protection (PPE) and detection equipment is available and functioning properly. Does the equipment need to be intrinsically safe? Approach from an upwind or crosswind direction, staying within visual contact and calling distance from your buddy. As the responder conducts monitoring, the back-up responder will maintain communication and be prepared for rescue. Check for toxic or explosive gases – smell or sight alone should not be trusted to determine if a hazard exists. Ensure ambient air concentrations are monitored continuously. All personnel should evacuate the area if concentration are, or become, hazardous. Avoid extinguishing an ignited release if leak or supply cannot be stopped. Responders should not attempt to battle any fire without site knowledge, risk assessment of factors, adequate firefighting equipment, training, and back-up personnel. Inform first responders (including external personnel) about all hazards. DO NOT allow first responders to enter the hazard area unless properly trained and equipped. Report full details needed to the Incident Commander				

SIX STEP INITIAL RESPONSE GUIDE

Situation Assessment
Establish Command
Coordinate Internal Notification
Undertake External Notification
Run Briefing
Ensure Public Safety

□ Provide status updates to the Public Safety Group Supervisor at established intervals.

Use the following resources:

Site ICS - Roles & Responsibilities (Roadblocks)

• Field Operations - Area Specific Information (Map)

Step 1 – Situation Assessment

After notification of an emergency incident the Emergency Response Plan (ERP) will be activated at any Level of Emergency.

Levels of Emergency

- □ Alert/Minor
- □ Level 1 Emergency
- □ Level 2 Emergency
- □ Level 3 Emergency

Note: Please refer to the jurisdictional matrix that is most applicable for the area of operations. If the incident overlaps more than one level on a matrix always choose the highest level.

Use the following resources:

 Initial Response Step 1 – Applicable Jurisdictional Assessment Matrix for Classifying Incidents

Step 3 – Coordinate Internal Notification – IC to Call/Email Area Director and Director HSE

- □ Determine internal personnel to be notified.
- □ Relay the information in the completed Size Up the Situation Form (Initial Response).
- Mobilize internal resources to the site, to the Incident Command Post (ICP) and to the Emergency Operations Centre (EOC) or place them on standby as required.
- Area Directors will escalate to Senior Leadership Team and active the Corporate Emergency Operations Center.
- ☐ Area Director or designate will assume EOC Director Role and support the IC.

Use the following resources:

Use the following resources:

• Site ICS - Roles & Responsibilities (Air Monitors)

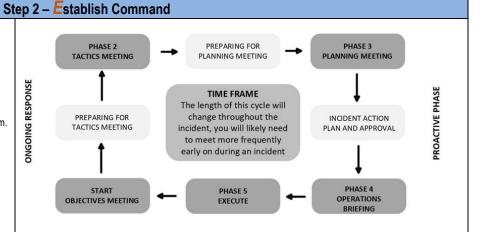
- Field Operations Telephone Directory
- Field Response Team and EOC Command Structure Roles & Responsibilities

Stand Up the Incident Command System

- □ Incident Commander will be assigned to the individual who has the highest qualifications and experience. (IC)
- □ Assign Safety Officer. (SO)
- □ Assign Liaison Officer. (LO) External Notification
- □ Assign Information Officer. (IO)
- Determine if other roles are needed to establish the field response team.
 Consider size and complexity

Use the following resources:

• Initial Response - Step 2 Establish Command Field Response Team - Roles & Responsibilities



Step 4 – Undertake External Notification – Liaison Officer

- Follow the External Emergency Notification Flowchart and utilize the Field Operations section to determine which external agencies need to be notified.
- □ Regulatory agency to confirm the Level of Emergency.
- 911 (Police, Fire, Ambulance).
- ☐ Health Authority/Health Services.
- Local Authority (Cities, Towns, Villages, Counties, M.D.s, R.D.s, R.M.s, Special Areas, Reserves, etc.).
- ☐ Air Monitoring (at all levels of emergency).

Use the following resources:

Crisis Communication Plan(s)

arrived and those who have not yet arrived).

• Field Response Team - Roles & Responsibilities (Reception Centre Rep)

Use the following resources:

Forms

• Field Operations - Area Specific Information

Step 5 – Run Briefing – Information Officer/Safety Officer

Complete an ICS 201 Incident Briefing Form:

- Define incident details and an operational period (page 1).
 Establish the On-Site Command Post (OSCP) and ICP
- □ Document current incident objectives, strategies, and tactics.
- Prioritize objectives.
- □ Define initial Incident Command Structure.
- □ Identify the required resources, and when they will be available.
- □ Identify Hazards and develop applicable safety plan(s).

Use the following resources:

- Initial Response: Size Up the Situation Form, Step 5 Incident Briefing (Incident Priorities)
- Forms (ICS 201, 202)

Step 6 - Ensure Public Safety 6.1 Activate Public Protection Measures -6.2 Dispatch Rovers (Public Protection Group Supervisor) 6.3 Establish Telephone Team – (Public Protection Group Supervisor) (Operations Section Chief) □ Dispatch Rovers to patrol the EPZ. □ Establish a Telephoner Team to notify residents to evacuate or shelter-in-place as required. □ Determine the hazard area; start with Emergency Planning Zone (EPZ). □ Follow all safety procedures and have all appropriate PPE. □ Notify special needs residents at a Level 1 Emergency and provide the option to evacuate □ Identify the affected surface developments and area users (residents, businesses, Search the EPZ for transients. voluntarily guides/outfitters, trappers, schools, other oil and gas operators, etc.). ☐ Assist residents that require evacuation assistance. □ Removed Follow-up phone calls to address resident inquiries. □ Determine the appropriate public protection measure for the affected surface developments □ Investigate surface developments that are identified as vacant or those unable to contact. □ Record all phone calls and communications using the following forms: and area users. (evacuation, shelter-in-place and/or ignition). □ Post notices on all outside doors of empty surface developments, vehicles, etc. □ Coordinate evacuation outside of the EPZ with the local authority (If required). ICS 214 & Stakeholder Forms □ Record all contacts, communications and monitor readings using the following forms: ICS □ Utilize broadcast media to notify the public outside of the EPZ in immediateevacuation □ Regularly provide status updates to the Public Safety Group Supervisor. 214 & Environmental Monitoring Record. situations. ☐ Monitor and record air quality readings using the following forms: ICS 214 & Environmental Use the following resources: Monitoring Record (smoke, plumes, wind, etc.). Use the following resources: • Field Response Team - Roles & Responsibilities (Telephone Team Leader) □ Provide status updates to the Public Safety Group Supervisor at established Initial Response - Public Protection Measures Flowchart intervals. Response Action Plans (Public Safety and Protection) Public Notification Flowchart Use the following resources: Field Operations - Area Specific Information • Field Response Team - Roles & Responsibilities (Rovers) Forms • Field Operations - Area Specific Information 6.6 Establish Reception Center for Impacted Residents and Stakeholders (Public 6.4 Establish Roadblocks (Public Protection Group Supervisor) 6.5 Dispatch Air Monitors (Public Protection Group Supervisor) Protection Group Supervisor) □ Follow safety procedures to safely establish roadblocks wherever a road intersects with the □ Dispatch Air Monitoring personnel to the nearest residence/public facility downwind of the □ If residents are evacuated, dispatch a Reception Centre Representative to the reception center location. EPZ and advise vehicles to reroute □ Record all vehicle encounters and air monitoring readings. Complete the following forms: □ Follow safety procedures and have appropriate PPE. Meet and register evacuated residents. ICS 214 and Roadblock Checkpoint Record. ☐ Monitor and record air quality readings using the following forms: ICS 214 & Environmental Record contact information for those who choose to stay elsewhere. ☐ Gain permission from the Public Safety Group Supervisor for response vehicles to enter the Monitoring Record (Smoke, plumes, wind, etc.). Complete the following forms: ICS 214 & Stakeholder Forms □ Provide status updates to the Public Safety Group Supervisor at established intervals. □ Regularly provide status updates to the Public Safety Group Supervisor (those who have

Preparing for **Tactics** the Planning Planning Meeting Meeting Meeting Preparing IAP Prep & for the Approval Tactics Meeting Command & Operations General Staff Meeting Incident Command New Ops **Unified Command** Execute Plan Period Begins Develop / Update & Assess Objectives Meeting **Progress** Initial Incident Command / Unified Command Meeting RESPONSE Incident Brief Using ICS-201 Initial Response INITIAL & Assessment Notifications Incident / Event

Note: This document is to be used as a guide only. It is not meant to replace the use of the ERP and does not eliminate the need for ERP-related training.



Step 1 – **S**ituation Assessment

British Columbia Incident Classification Matrix

The Incident Classification Matrix is designed for use as a tool for determining the severity of an incident. Instructions: Start at the top and continue down until you check off any one box in both consequence and probability to determine the incident classification. This matrix is required as an attachment upon submission of an incident through Minor Incident Reporting System.

Table 1: Consequence Ranking

RANK	CONSEQUENCE (any one of the following)				
	☐ Major on-site equipment or infrastructure loss				
4	 Major act of violence, sabotage, or terrorism which impacts permit holder assets 				
	 Reportable liquid spill beyond site, uncontained and affecting environment 				
	 Gas release beyond site affecting public safety 				
	 Threats of violence, sabotage, or terrorism 				
	 Reportable liquid spill or gas release beyond site, potentially affecting public safety, environment, or 				
3	property				
	☐ HAZMAT worker exposure exceeding allowable				
	☐ Major on-site equipment failure				
	☐ Major on-site equipment damage				
	 A security breach that has potential to impact people, property or the environment 				
2	☐ Reportable liquid spill or gas release potentially or beyond site, not affecting public safety,				
	environment, or property				
	☐ Moderate on-site equipment damage				
	☐ A security breach that impacts oil and gas assets				
1	☐ Reportable liquid spill or gas release on location				
	**Occurrence of magnitude 4.0 or greater induced earthquake within 3 km of oil and gas operations				
	or any earthquake which is felt on surface within a 3 km radius of oil and gas operations				
0	□ No consequential impacts				

^{**} For this consequence criteria, a probability score of 2 or higher must be used.

Table 2: Probability Ranking

RANK	PROBABILITY (any one of the following)		
4	☐ Uncontrolled, with control unlikely in near term		
3	☐ Escalation possible; under or imminent control		
2	☐ Escalation unlikely; controlled or likely imminent control		
1	☐ Escalation highly unlikely; controlled or imminent control		
0	☐ Will not escalate; no hazard; no monitoring required		

Table 3: Incident Risk Score and Classification

Consequence _____ + Probability _____ = Risk Score ____ (this must be completed)

Risk Score	Assessment Result				
Minor (1-2) Notification Only; permit holder must notify the Regulator online within 24-hours using the Form A: Min Incident Notification Form. In addition to Form A, spills must also be reported to EMCR.					
Moderate (3-4)	Level-1 Emergency; immediate notification (call EMCR)				
Major (5-6)	Level-2 Emergency; immediate notification (call EMCR)				
Serious (7-8)	Level-3 Emergency; immediate notification (call EMCR)				

2025 Section 1.0 Page 4 of 16



						Probability		
				4	3	2	1	0
	BCER Incident Classification Matrix		☐ Uncontrolled, with control unlikely in near term	☐ Escalation possible; under or imminent control	☐ Escalation unlikely; controlled or likely imminent control	☐ Escalation highly unlikely; controlled or imminent control	☐ Will not escalate; no hazard; no monitoring required	
	4		Major on-site equipment or infrastructure loss Major act of violence, sabotage, or terrorism which impacts permit holder assets Reportable liquid spill beyond site, uncontained and affecting environment Gas release beyond site affecting public safety	Level 3	Level 3	Level 2	Level 2	Level 1
Consequence	3		Threats of violence, sabotage, or terrorism Reportable liquid spill or gas release beyond site, potentially affecting public safety, environment, or property HAZMAT worker exposure exceeding allowable Major on-site equipment failure	Level 3	Level 2	Level 2	Level 1	Level 1
	2		Major on-site equipment damage A security breach that has potential to impact people, property or the environment Reportable liquid spill or gas release potentially or beyond site, not affecting public safety, environment, or property	Level 2	Level 2	Level 1	Level 1	Minor Notification Form
	1		Moderate on-site equipment damage A security breach that impacts oil and gas assets Reportable liquid spill or gas release on location ** Occurrence of magnitude 4.0 or greater induced earthquake within 3 km of oil and gas operations or any earthquake which is felt on surface within a 3 km radius of oil and gas operations	Level 2	Level 1	Level 1	Minor Notification Form	Minor Notification Form
	0	П	No consequential impacts	Level 1	Level 1	Minor Notification Form	Minor Notification Form	No Notification Required

^{**} For this consequence criteria, a probability score of 2 or higher must be used.



Alberta Assessment Matrix for Classifying Incidents

The ERP will be implemented as deemed necessary in response to either an alert or an emergency (Level 1, 2, 3).

Start at the bottom and continue upwards until you check off any one box in both consequence and likelihood to determine the incident classification.

	Table 1. Consequence of Incident					
Rank	Category Example of consequence in category					
1	Minor	 No worker injuries. Nil or low media interest. Liquid release contained on lease. Gas release impact on lease only. 				
2	Moderate	 First aid treatment required for on-lease worker(s). Local and possible regional media interest. Liquid release not contained on lease. Gas release impact has potential to extend beyond lease. 				
3	Major	 Worker(s) require hospitalization. Regional and national media interest. Liquid release extends beyond lease – not contained. Gas release impact extends beyond lease – public health/safety could be jeopardized. 				
4	Catastrophic	 Fatality. National and international media interest. Liquid release off lease not contained – potential for or is impacting water or sensitive terrain. Gas release impact extends beyond lease – public health/safety jeopardized. 				

Т	able 2. Likelil	nood of incident escalating*
Rank	Descriptor	Description
1	Unlikely	The incident is contained or controlled, and it is unlikely that the incident will escalate. There is no chance of additional hazards. Ongoing monitoring required.
2	Moderate	Control of the incident may have deteriorated but imminent control of the hazard by the licensee is probable. It is unlikely that the incident will further escalate.
3	Likely	Imminent and/or intermittent control of the incident is possible. The licensee has the capability of using internal and/or external resources to manage and bring the hazard under control in the near term.
4	Almost Certain or currently occurring	The incident is uncontrolled and there is little chance that the licensee will be able to bring the hazard under control in the near term. The Licensee will require assistance from outside parties to remedy the situation.
		at the incident will escalate, resulting in an lic health, safety, or the environment?

Rank Rank

Sum the rank from both of these columns to obtain the risk level and the incident classification



Rank Sum

Table 3 Incident Classification

Risk Level Assessment results

Very Low 2-3 Alert

Low 4-5 Level – 1 Emergency

Medium 6 Level – 2 Emergency

High 7-8 Level – 3 Emergency



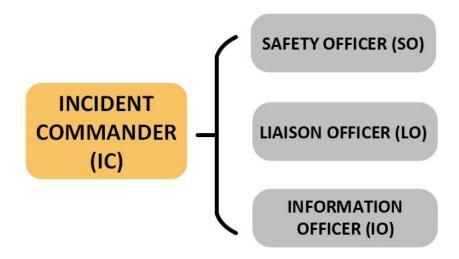
Incident Response

		Incident Classifica	ation	
Responses	Alert	Level 1 Emergency	Level 2 Emergency	Level 3 Emergency
		Communication	ns	
Internal	Discretionary, depending on licensee policy.	Notification of off-site management.	Notification of off-site management.	Notification of off-site management.
External Public	Courtesy, at licensee discretion.	Mandatory for individuals who have requested notification within the EPZ.	Planned and instructive in accordance with the specific ERP.	Planned and instructive in accordance with the specific ERP.
Media	Reactive as required.	Reactive as required.	Proactive media management to local or regional interest.	Proactive media management to national interest.
Government	Reactive, as required. Notify the AER 24-Hour Response Line if public or media is contacted.	Notify the AER 24-Hour Response Line. Call local authority and AHS if public or media is contacted.	Notify the AER 24-Hour Response Line, local authority and AHS.	Notify the AER 24-Hour Response Line, local authority, and AHS.
		Actions		
Internal	On site as required by licensee.	On site as required by licensee. Initial response undertaken in accordance with the specific or corporate level ERP.	Predetermined public safety actions are under way. Corporate management team alerted and may be appropriately engaged to support on-site responders.	Full implementation of incident management system.
External	On site as required by licensee.	On site as required by licensee.	Potential for multi- agency (operator, municipal, provincial or federal) response.	Immediate multi-agency (operator, municipal, provincial or federal) response.
		Resources		
Internal	Immediate and local. No additional personnel required.	Establish what resources would be required.	Limited supplemental resources or personnel required.	Significant incremental resources required.
External	None.	Begin to establish resources that may be required.	Possible assistance from government agencies and external support services required.	Assistance from government agencies and external support services required.



Step 2 – Establish Command

The Incident Commander (IC) is responsible for the overall management of the incident. The role will be assigned to the individual who has the highest qualifications and experience.

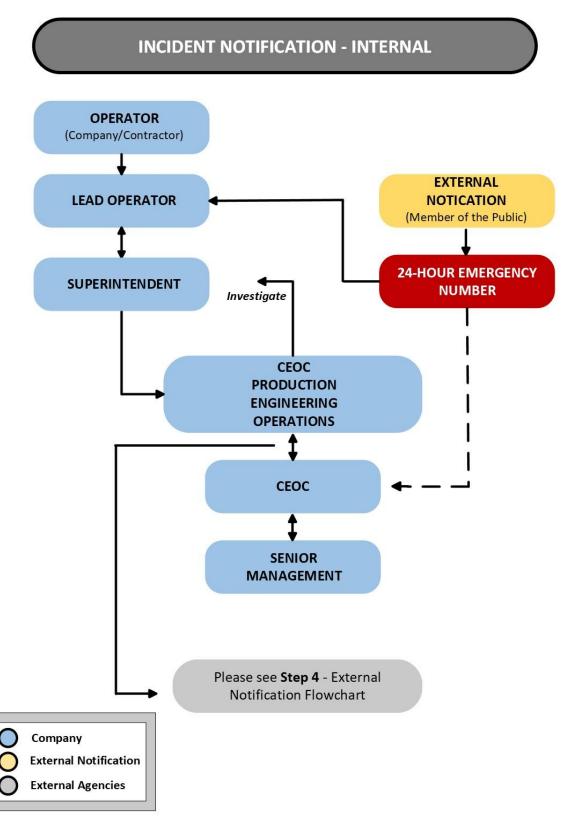


Determine if other roles are needed to establish the field response team – Consider site and scale Deputy Incident Commander can be assigned for larger scaled incidents



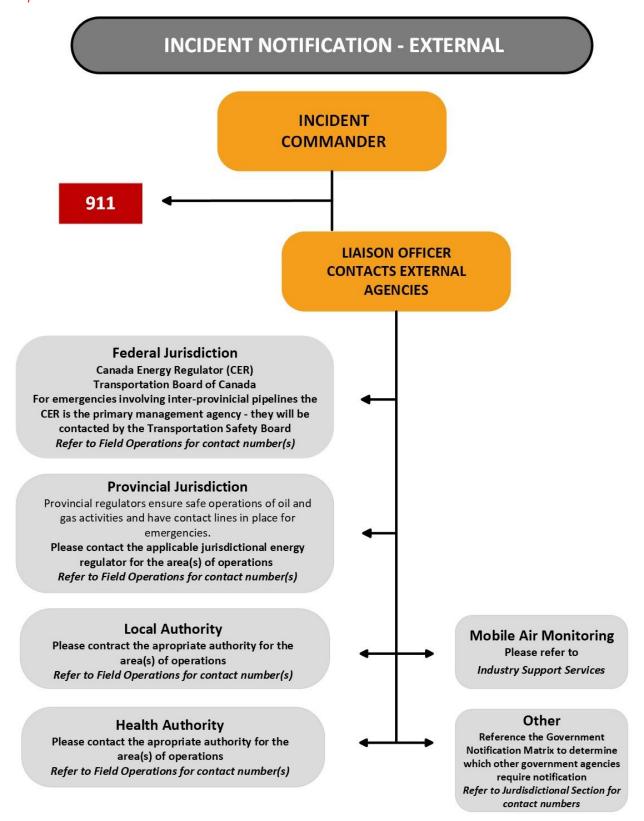


Step 3 – Coordinate Internal Notification





Step 4 – **U**ndertake External Notification





British Columbia Notification Requirements for Key Government Agencies and Local Resources (BC)

British Columbia	Y OR JRCE		Initial Responders			Lead Agencies				Other Government Contacts					Support Services
INCIDENT TYPE	AGENCY OR RESOURCE	Ambulance Services	Local Fire Department or Industrial Fire Service	Police	EMCR	BCER	Ministry of Environment & Climate Change Strategy	Local Authorities	Local Health Authority ¹	WorkSafe BC	Technical Safety BC	Ministry of Forests, Lands, Natural Resource Operations & Rural Development ²	Ministry of Transportation and Transit ³	Electrical Provider	Oil Spill Cooperative (WCSS)
Sour Gas Release				✓	✓	✓	✓	✓	✓			✓	✓		
Sweet Combustible Gas Release				\	✓	✓	√	✓	✓			✓	✓		
Spill - Unrefined Products*					✓	✓	✓	✓	√			✓	✓		✓
Spill - Refined Products*					✓	✓	✓	✓	✓			✓	✓		✓
Major Release of a Hazardous Substance				>	✓	✓	✓	✓	√	✓		✓	✓		✓
Trucking/Motor Vehicle Incident				✓	✓	✓	✓	✓					✓		
Serious Injury or Fatality (including sour gas exposure)		✓	✓	✓	✓					✓					
Fire/Explosion			√4	✓	✓	✓		✓	✓	✓	✓	✓	✓		
Boiling Liquid Vapour Explosion - BLEVE				✓	✓	✓		✓	✓	✓		✓	✓		
Pressure Vessel or Piping Incident					✓	✓							✓		
Electrical Incident					✓							✓	✓	✓	
Security Incident				√	✓	✓							✓		

✓ Mandatory contact

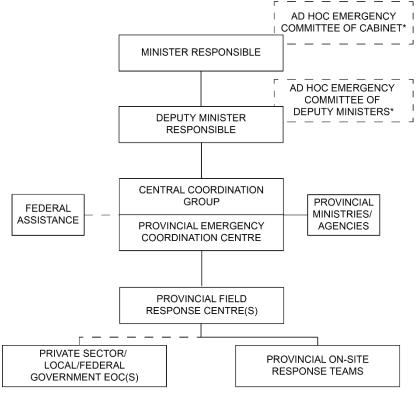
- 1 Contact the Local Health Authority if the incident has the potential to impact public health.
- 2 Contact BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development for any event that could affect forested areas.
- 3 Contact BC Ministry of Transportation and Transit or the RCMP if the emergency affects a highway designated by 1, 2, or 3 digits (e.g. Hwy 2, Hwy 47, Hwy 837). 4 Contact local Fire Department or Industrial Fire Service in a BLEVE scenario to be a backup to ERAC.

Federal 898		Initial Responders	Lead Agencies		Other Gover	nment Contacts			Support Services		
INCIDENT TYPE	AGENCY OR RESOURCE	RCMP	CER 1	Transportation Safety Board (TSB)	Environment and Climate Change Canada ²	Indian Oil and Gas Canada ⁴	DFO	CANUTEC 3	ERAC - Emergency Response Assistance Canada ⁵	NAV Canada	
Sour Gas Release		✓	✓		✓	✓	✓			✓	
Sweet Combustible Gas Release		√	✓		√	✓	✓			✓	
Spill - Unrefined Products*			✓		✓	✓	✓	<	✓		
Spill - Refined Products*			✓		✓	✓	✓	✓	✓		
Trucking/Motor Vehicle Incident		√			✓			✓	✓		
Marine, pipeline, rail and air modes				✓							
Serious Injury or Fatality (including sour gas exposure)		✓	✓			✓					
Fire/Explosion		✓	✓		✓	✓				✓	
Boiling Liquid Vapour Explosion - BLEVE			✓					✓	✓		
Pressure Vessel or Piping Incident			✓		✓				✓		
Electrical Incident			√		√						
Security Incident		✓	✓								

✓ Mandatory contact

- 1 Contact the Canada Energy Regulator (via the Transportation Safety Board of Canada) for emergencies involving CER regulated sites and inter-provincial pipelines.
- 2 Contact Environment and Climate Change Canada for incidents involving spills on first nation's lands, in National Parks, into river or lake systems containing fish or onto railway rights-of-way.
- 3 Contact the Canadian Transport Emergency Centre (CANUTEC) if information is required about handling procedures for toxic material releases.
- 4 Contact Indian Oil and Gas Canada for incidents effecting First Nation reserves and Metis settlements.
- 5 Contact ERAC for emergencies related to specific ERAP products for vessels containing over 450 liters or greater by road, rail and stationary tank.

Initial Notification Process



*AD HOC COMMITTEE THAT MAY BE FORMED IN THE EVENT OF A SEVERE EMERGENCY OR CATASTROPHIC EVENT.

^{*} Refer to the British Columbia Petroleum Industry Release Reporting Requirements chart included in the ERP.



Alberta Notification Requirements for Key Government Agencies and Local Resources (AB)

Alberta 5	ACE.		Initial esponders			L	ead Agencies				Other	Government Co	ntacts			Support Services
INCIDENT TYPE	Ambula Service	ince l	Local Fire Department or Industrial Fire Service	Police/ RCMP	Emergency	EPA nvironmental and Operations laint Line	Local Authorities (i.e. urban centres, MDs, and first nations reserves)	Health	Alberta Occupational Health and Safety	Workers' Compensation Board	AEMA - Alberta Emergency Management Agency	ABSA - Alberta Boilers Association	Alberta Agriculture and Forestry ⁴	Alberta Safety Services - Electrical Branch	Alberta Transportation EDGE	Oil Spill Cooperative (WCSS)
Sour Gas Release				✓	✓	✓	~	√	✓		✓		✓		✓	
Sweet Combustible Gas Release				✓	✓	✓	✓	√	✓		✓		✓		✓	
Spill - Unrefined Products*					✓	√	✓	√	✓		✓		√		✓	✓
Spill - Refined Products*					✓	√	✓	√	✓		✓		✓		✓	✓
Trucking/Motor Vehicle Incident	✓		✓	✓	✓	✓	✓		✓						✓	
Serious Injury or Fatality (including sour gas exposure)	✓			✓	√			✓	✓	√						
Fire/Explosion			✓	✓	✓		✓	√	✓		✓		✓		✓	
Boiling Liquid Vapour Explosion - BLEVE			√ 1	✓	✓		✓	√	✓		✓		✓		✓	
Collapse or upset of a crane, derrick or Collapse or failure of any component of a building or structure	hoist								✓							
Pressure Vessel or Piping Incident					✓			•	✓			✓			✓	
Electrical Incident			✓		✓				✓					✓	✓	
Security Incident				✓	√				✓						✓	

✓ Mandatory contact

✓ Contact consideration based on emergency event details.

* Refer to the Alberta Petroleum Industry Release Reporting Requirements chart included in the ERP.

1 Contact Local Fire Department or Industrial Fire Service in a BLEVE scenario to be a backup to ERAC.
2 Contact RCMP if the emergency affects a highway designated by 1, 2, or 3 digits (e.g. Hwy 2, Hwy 47, Hwy 837).
3 Contact Alberta Health Services (AHS) if the incident has the potential to impact public health (i.e. sour gas release impacting stakeholders.)

4 Contact Alberta Agriculture and Forestry for any event that could affect forested areas.

5 Alberta Transportation EDGE is the first call for all transportation related spills/incidents.

Federal	Initial Responders	Lead Agencies		Other Gover		Support Services				
INCIDENT TYPE	AGENCY OR RESOURCE	RCMP	CER 1	Transportation Safety Board (TSB)	Environment and Climate Change Canada ²	Indian Oil and Gas Canada ³	DFO4	CANUTEC 5	ERAC - Emergency Response Assistance Canada ⁶	NAV Canada
Sour Gas Release		✓	√	✓	✓	✓				✓
Sweet Combustible Gas Release		✓	✓	✓	✓	✓				✓
Spill - Unrefined Products*			✓	✓	✓	✓	√	✓	✓	
Spill - Refined Products*			✓	✓	✓	✓	✓	✓	✓	
Trucking/Motor Vehicle Incident		✓		✓	✓		✓	✓	✓	
Marine, pipeline, rail and air modes				✓			√			
Serious Injury or Fatality (including sour gas exposure)		✓	✓	✓		✓				
Fire/Explosion		✓	✓	✓	✓	✓				✓
Boiling Liquid Vapour Explosion - BLEVE			✓					✓	✓	
Pressure Vessel or Piping Incident			√		√		√		✓	
Electrical Incident			√		✓					
Security Incident		✓	✓	✓						

✓ Mandatory contact

✓ Contact consideration based on emergency event details.

Contact the Canada Energy Regulator (via the Transportation Safety Board of Canada) for emergencies involving CER regulated sites and inter-provincial pipelines.

2 Contact Environment and Climate Change Canada for incidents involving spills on First Nation's lands, in National Parks, into river or lake systems containing fish or onto railway rights-of-way.

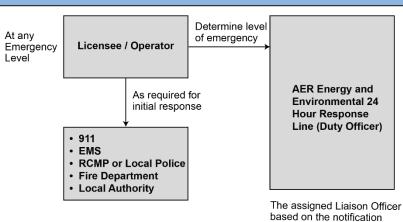
3 Contact Indian Oil and Gas Canada for incidents effecting First Nation reserves and Metis settlements.

4 Contact the DFO to report any spill that occurs in or around fresh, marine, or fish bearing waters.

5 Contact the Canadian Transport Emergency Centre (CANUTEC) if information is required about handling procedures for toxic material releases.

6 Contact ERAC for emergencies related to specific ERAP products for vessels containing over 450 liters or greater by road, rail and stationary tank.

Initial Notification Process



requirements for key government agencies will advise the assigned AER Duty Officer of the emergency services, government agencies and support services they are in the process of contacting.



Step 5 – **R**un Briefing

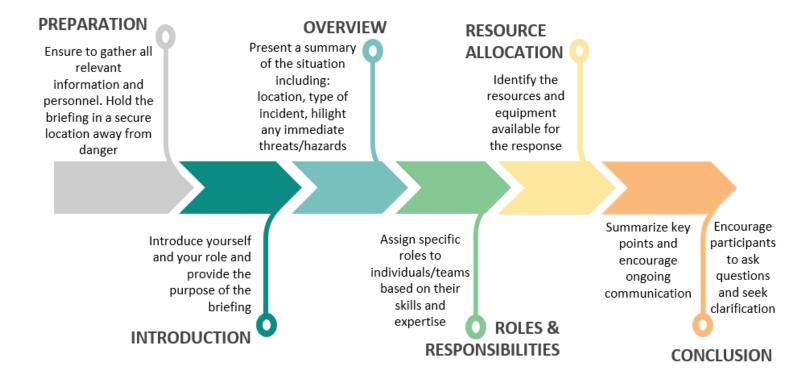
Refer to the Forms Section for ICS 201(Incident Briefing Form), ICS 202 (Incident Objectives)

Briefing Sessions

Effective briefing sessions are:

- An essential element of good supervision and incident management
- Intended to pass along vital information required for the completion of incident response actions

Typically, these briefings are concise and do not include long discussions or complex decision making. Rather, they allow incident managers and supervisors to communicate specific information and expectations for the upcoming work period and to answer questions.





Incident Priorities Chart

INCIDENT PRIORIT	TIES			BLACKGOL	Emergency Planners Inc.
PEAR	PROBLEM	OBJECTIVE	STRATEGY	TACTICS	TIME FRAME
People Environment Assets Reputation	A problem is a threat or a potential threat to any, or all priorities	An objective is the simplest solution to the problem facing your priority(s)	Strategies are the way, or the ways that you achieve your objective	Tactics are the resources (people/equipment) required to do the job	Estimated time to complete this objective
			Operational Period:	To: From:	1



Step 6 – Ensure Public Safety

Public Protection Measures Flowchart - BC

PUBLIC PROTECTION MEASURES

Is there potential for the release to impact beyond the lease, facilities, or pipeline right of way?

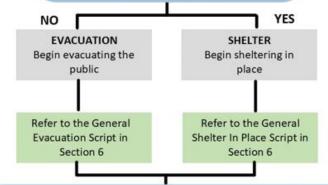
Continue with control/containment measures

NO

YES

DID ANY OF THE FOLLOWING HAPPEN?

- The release is expected to pass over quickly
- The public would be at a higher risk if evacuated
- There is not enough time or warning to safely evacuate the public
- The source and nature of the release has not been identified



Ignition must take place when one of the following conditions have been met:

- Although required, evacuation of the response zone has not taken place
 Monitoring results indicate H2S concentrations of 10 ppm over a 3-minute average in unevacuated areas of EPZ
- If monitoring levels are declining, the situation must be continually assessed for ignition
 - -H2S concentrations exceed 1 ppm over a 1 hour average in urban density developments
- -Monitoring is not taking place due to unforseen weather or cirumstances

 The release cannot be under control in the short term (ignition decisions will be
 made in consultation with regulatory agency)

Evacuation begins closest to the Incident and expands outward downwind of the release so that members of the public are not exposed to the hazard

CLOSEST TO INCIDENT

If safe to do so, the licensee (company) must evacuate public closest to the incident

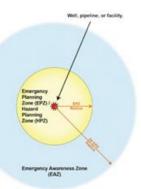
DOWNWIND

Evacuation/Sheltering In Place of public determined by the incident

EPZ

Emergency Planning Zone Giving priority to those who have special needs and/or have requested early notification

MODIFIED EPZ Emergency Planning Zone Any public that are outside the calculated EPZ that may be affected





measures

Public Protection Measures Flowchart - AB

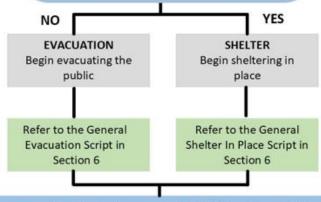
PUBLIC PROTECTION MEASURES

Is there potential for the release to impact beyond the lease, facilities, or pipeline right of way? NO Continue with control/containment

DID ANY OF THE FOLLOWING HAPPEN?

YES

- The release is expected to pass over quickly
- The public would be at a higher risk if evacuated
- There is not enough time or warning to safely evacuate the public
- The source and nature of the release has not been identified



Ignition must take place when one of the following conditions have been met:

- Although required, evacuation of the response zone has not taken place -Monitoring results indicate H2S concentrations of 10 ppm over a 3-minute average in unevacuated areas of EPZ
- If monitoring levels are declining, the situation must be continually assessed for ignition
 - -H2S concentrations exceed 1 ppm over a 1 hour average in urban density developments
- -Monitoring is not taking place due to unforseen weather or cirumstances - The release cannot be under control in the short term (ignition decisions will be made in consultation with regulatory agency)

Evacuation begins closest to the Incident and expands outward downwind of the release so that members of the public are not exposed to the hazard

CLOSEST TO INCIDENT

If safe to do so, the licensee (company) must evacuate public closest to the incident

DOWNWIND

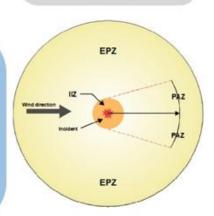
Evacuation/Sheltering In Place of public determined by the incident

EPZ Emergency Planning Zone

Giving priority to those who have special needs and/or have requested early notification

MODIFIED EPZ **Emergency Planning Zone**

Any public that are outside the calculated EPZ that may be affected





2.0 EOC TELEPHONE LIST / POLICY STATEMENT

2.1 Corporate Contact List

	NorthRiver Midstream Inc.						
	24-Hour Emergency Number						
	1-844-667-8477						
		•					
Name	Position	Office	Cell				

2.2 Emergency Management Policy Statement

NorthRiver Midstream is committed to conducting all of its business operations activities with maximum regard to the protection and safety of its employees, contractors and other on-site personnel, the community, the public, and the environment in which it operates.

It will accomplish this goal by:

- Preparing and maintaining up to date contingency plans and emergency response procedures to guide company personnel and others in responding to an emergency incident QUICKLY, SAFELY and EFFECTIVELY.
- Complying fully with all federal, provincial and municipal laws and regulations when responding to an emergency incident.
- Responding quickly, safely and effectively to any emergency for which it is responsible and providing information and assistance to others responding to any incident involving its products.
- Providing clear, accurate and timely information to the public about any incident which may place the community or the environment at risk.
- Ensuring its employees receive appropriate training in safety and emergency response procedures.
- Ensuring local responders receive appropriate training in safety and emergency response procedures.
- Setting and achieving high standards of operational integrity and incident prevention in all aspects of its operations.

2025 Section 2.0 Page 1 of 2



Response Priorities

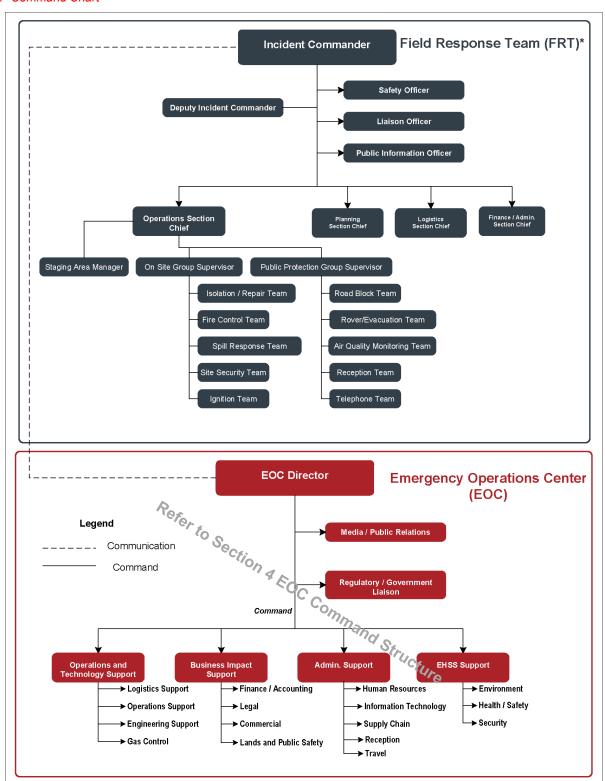
The response procedures outlined in this plan and all response actions taken by NorthRiver Midstream personnel in an emergency response will be carried out in the following order with the listed overall priorities:

- PROTECTION OF LIFE including responders, workers, employees, contractors and the public.
- PROTECTION OF THE ENVIRONMENT including sensitive land or marine ecological resources.
- PROTECTION OF PROPERTY including private and public property used for residential, commercial, and/or recreational purposes including drinking water and other amenities.



3.0 FIELD RESPONSE TEAM - ROLES AND RESPONSIBILITIES

3.1 Command Chart





3.2 First Responder

The First Responder is the first person at the incident location. If properly trained and qualified, the First Responder will be responsible for the following checklist.

Location	On-Site On-Site
Evacuate (Protect yourself)	☐ Remain calm. ☐ Get to a safe area away from the hazard. ☐ Direct others to a safe area.
Sound the Alarm	□ Alert other personnel on-site. □ Call for help (your supervisor or control room, as appropriate). □ Activate mutual aid and emergency services, as required.
Assess Incident	□ Resist the urge to rush in, others cannot be helped if you are injured. □ Gather at muster stations and conduct a head count. □ Consider wind direction. □ Identify exposure to environments that may be toxic, flammable, explosive, or otherwise harmful. □ Ensure personnel understand hazards and control actions.
Protect	□ Assume on-site ICS duties until relieved, refer to Incident Commander checklist. □ Take action to shutdown, isolate, control, or contain incident. □ Don personal protective equipment. □ Control entry into hazardous area. □ Secure the area. □ Release non-essential on-site personnel.
Rescue Operations	Only if safe to do so: ☐ Rescue victim to safe area.
Medical Aid	□ Revive victim. □ Administer first aid, maintain ongoing care and confirm emergency services have been dispatched.
Continue Response	☐ Continue to implement ICS response actions.

Forms	
	ICS 214 – Activity Log

2025 Section 3.0 Page 2 of 38



3.3 Incident Commander

The Incident Commander assumes responsibility for the implementation and management of emergency response procedures at the incident site. Even if other functions are not filled, an Incident Commander will always be designated. The Incident Commander's key responsibilities are worker/responder safety, public safety, and control and containment.

The Incident Commander role should be assigned to the most experienced company supervisor or representative near the incident site. The Incident Commander has the responsibility to establish the Incident Command Post and manage the implementation of a safe and effective tactical response.

The Incident Commander is responsible for all response functions until he/she delegates those response activities.

INCIDENT COMMANDER						
Location						
Incident Command Post.						
Confers With						
□ EOC Operations Chief.						
Gives Direction To						
□ Operations Section Chief.						
□ Planning Section Chief.						
□ Logistics Section Chief.						
□ Finance Section Chief.						
□ Safety Officer.						
□ Liaison Officer.						
□ Information Officer						
□ Scribe.						



	INCIDENT COMMANDER
Situa	ation Assessment
	Consider evacuating non-essential personnel to safety and place them on standby to fill positions as required.
	Dispatch trained and appropriately equipped personnel (preferably in pairs) to investigate.
	If the situation assessment confirms that company assets are involved, activate Incident Command Post and establish Incident Command.
	If the incident involves another company's asset, ensure that their personnel are notified. Maintain contact with the responsible operating company until they arrive on scene.
	Ensure the re-contact of the person who reported the incident and ensure they are advised of the result of the situation assessment.
	Notify appropriate company personnel.
	Assess the situation and, using the appropriate matrix for classifying incidents, determine the level of emergency.
Aler	t/Minor
	Ensure first aid and transport for any injured personnel is initiated as required. Take a head count and ensure personnel are accountability record is maintained for the duration of the incident.
	Document all activities utilizing the ICS 214 – Activity Log.
	Develop an initial response strategy that adheres to PEAR (protect people, environment, assets and reputation) emergency response priorities.
	Based on initial information, identify the problems facing PEAR priorities and the objectives to eliminate the problems. Identify the appropriate tactics/strategies and develop and implement the initial Incident Action Plan.
	Establish contact and method of communications with the EOC Operations Chief.
	Schedule regular briefings with the EOC Operations Chief.
	Evaluate resource requirements and advise EOC Operations Chief.
	For an incident that is not impacting public safety, consider public notification as a courtesy.
	Assess the situation using the appropriate matrix for classifying incidents. Reassess and determine the Level of Emergency. Consider conferring with the EOC Operations Chief.
	Ensure Regulatory Authority notification according to the applicable requirements. If any member of the public or media is aware of the situation, notify the regulator.
	Refer to the Notification Requirements for Key Government Agencies and Resources in the Jurisdictional section of this document.
Leve	
	Continue with previous actions.
	Appoint a scribe(s) as required.
	Determine the need for Planning Section Chief, Logistics Section Chief, and Finance/Admin Section Chief and activate as required.
	Facilitate incident briefing meeting with Section Chiefs. Re-evaluate information and revisit, the current problems facing PEAR priorities and the objectives to eliminate the problems. Re-evaluate the appropriate tactics and strategies and revise the Incident Action Plan accordingly. Communicate any revised plans between activated command posts.
	Ensure on site personnel have taken steps to protect themselves and any responders arriving at the site and have taken steps to control the incident (e.g. shutdown, isolate, depressurize) to protect the property.
	Ensure public impacts are assessed and strategies for public protection are discussed and developed.
	Ensure Environmental impacts are assessed and strategies for environmental protection are developed.
	Providing public and environmental impacts are being addressed, consider impacts to assets and develop strategies to protect the company assets.
	Upon completion of Incident Action Plan, identify safety hazards and immediate safety actions to be taken to protect against the hazards. Appoint Safety Officer if required. Develop safety message in preparation distribution of Incident Action Plans.
	Determine the Operational Period.
	Complete the ICS 201 – Incident Briefing Form.

Core Emergency Response Plan Field Response Team – Roles and Responsibilities

		INCIDENT COMMANDER
		Facilitate Command and General Staff Meeting, as required. Ensure resources, personnel and equipment required are communicated and requested to accomplish the objectives defined. Present safety message.
		Immediately ensure any suspected threats of violence, sabotage or terrorism are reported.
		Ensure worker exposures exceeding allowable limits are reported.
		Ensure security at the scene and restrict access to authorized personnel only.
		Ensure on-site environmental monitoring is initiated.
		Establish an Incident Command Post and communications with other Command Centres. Logistics will support with facilities and communications as needed.
		Ensure the boundaries of the response zones are defined and identified on the area map.
		Ensure that the Operations Section Chief identifies roadblock locations and evaluates how many members of the public could be inside the response zones.
		Ensure the appropriate public protection measure and notification script is identified. Initiate stakeholder notification within the incident EPZ. This includes establishment of a Reception Centre if required, transient survey of the area, dispatch of Mobile Air Monitoring Unit to the area as required.
		For an incident with the potential of odours, smoke or hazardous airborne release ensure monitoring at nearest downwind occupied location.
		Discuss actions, media requirements, resource requirements and conditions with EOC Operations Chief.
		Assign roles to personnel as appropriate for the size and complexity of the incident.
_		Ensure the notification of police in the event of an industrial fatality or motor vehicle incident.
NC		If the incident involves a pressure vessel, ensure the notification to the designated Company Chief Inspector.
IDEN		For sour gas events, ensure appropriate safety equipment, ignition equipment and environmental monitoring equipment is readily available or dispatched as required.
INCIDENT COMMANDER		Assess the situation, and using the appropriate matrix for classifying incidents, Reassess and determine the Level of Emergency. Confer with the EOC Operations Chief in the event of a change
IMC	Leve	12
AN		Continue with previous actions.
B		The immediate focus is protection of people on site and protection of public in the Emergency Planning Zone.
FR		Facilitate Incident briefing Meeting with Section Chiefs. Re-evaluate information and revisit, the current problems facing PEAR priorities and the objectives to eliminate the problems. Re-evaluate the appropriate tactics and strategies and revise the Incident Action Plan accordingly. Communicate any revised plans between activated command posts
		Ensure the Liaison Officer communicates with the lead regulatory agency and local authority to establish a closure order (state of emergency) to allow the establishment of roadblocks and evacuation of public from the planning zone.
	.	Determine the potential for the incident to escalate.
		Ensure the Operations Section Chief has established site security and is working to address source control.
		Ensure Operations Section Chief establishes an appropriate staging area and Manager as required to provide resource support.
		Ensure the response zone is isolated with the set up of roadblocks.
		Establish a sign-in post/station as required.
		Ensure the evacuation and staging of non-essential personnel.
		Initiate the dispatch of first line emergency services (firefighters, police, ambulance, safety contractors, or oil spill contractors) as required to meet the objectives. Ensure support for roadblock and rover personnel.
		Ensure the dispatch of a helicopter if required to survey area, transport supplies and/or assist with control measures.
		If the emergency has the potential to require ignition, ensure a qualified Ignition Team is chosen, duties are discussed and ignition equipment is on-site.
		Evaluate ignition criteria and communicate with the Operations Section Chief, EOC Operations Chief and applicable Regulatory Authority regarding ignition decision.
		Establish a Unified Command structure with government agencies at the Incident Command Post, if necessary.
		Ensure field responders are promptly notified of any status updates.
		Assess the situation, and using the appropriate matrix for classifying incidents, reassess the Level of Emergency. Confer with the EOC Operations Chief in the event of a change.

2025 Section 3.0 Page 5 of 38



INCIDENT COMMANDER		
Level	3	
	Continue with previous actions.	
	Confer with EOC Operations Chief to discuss additional control measures.	
	Determine if any ignition criteria has been met.	
	Consult with EOC Operations Chief and applicable Regulatory Authority, if possible. Initiate ignition procedures as required	
	Upon confirmation of the EPZ evacuation, ensure air monitoring is directed downwind beyond the EPZ. In coordination with the local authority determine the response steps beyond the EPZ.	
	Update previous contacts if there is a change of status.	
Deact	tivation	~
	Consider downgrade of the emergency in consultation with the EOC Director and the applicable Regulatory Authority. Once downgrading of the level of emergency is accepted, ensure the scene is preserved, security maintained and traffic on or off site is minimized or eliminated.	NCIDENT COMMANDER
	Ensure all members of the Emergency Response Team and other key participants are notified of the downgrade.	Ź
	Instruct EOC Director, Command Staff and General Staff to gather incident related documentation from their teams and ensure it is submitted to the Planning Section.	T C0
	Where applicable, provide instructions on the commencement of reclamation activities following control and containment and the area has been secured.	IDEN
	Coordinate the removal of the impacted waste material and dispose of the waste to an approved facility.	S
	Obtain a sufficient number of samples of the remediated site to demonstrate containment.	
	Ensure all appropriate government agencies are notified of the stand-down of the emergency.	
	Ensure any notified media are updated of the stand-down of emergency.	
	Ensure all affected stakeholders are notified of the stand-down of emergency.	
	Ensure the Operations Section Chief coordinates the ventilation of all residences and businesses as required and that monitoring for gas pockets continues to take place.	
	Ensure evacuee expenses and damage claims are collected.	
	Ensure post-incident reports are completed and submitted, if applicable.	
	Ensure all members of the emergency response team and other key participants are invited to the debriefing.	
	Conduct post-incident debriefing.	
	Assess the physical and emotional health of responders and make recommendations for Critical Incident Stress Debriefing.	

Form	Forms		
	ICS 201 – Incident Briefing		
	ICS 214 – Activity Log		
	ICS 234 – Work Analysis Matrix		
	Notification Record		
	Objectives Development Workboard		
Note: A comprehensive Incident Action Plan should, as a minimum, include ICS Forms 201, 202, 203, and 207.			



3.4 Operations Section Chief

The Operations Section Chief is responsible for the direction and coordination of all incident tactical operations and resources. Initially the Operations Section Chief consists of those few resources first assigned to an incident (these resources will initially report directly to the Incident Commander until the Operations Section Chief is assigned).

OPERATIONS SECTION CHIEF				
Loca	ocation			
	Location not pre-determined.			
Take	es Direction From			
	Incident Commander.			
Con	fers With			
	Section Chiefs, if applicable.			
<u> </u>	Safety Officer			
<u> </u>	Public Information Officer/EOC Information Officer			
	es Direction To			
<u> </u>	On-Site Group Supervisor.			
	Public Protection Group Supervisor.			
	Staging Area Manager.			
Aler	t/Minor			
	Document all activities utilizing the ICS 214 – Activity Log.	出		
	Establish method of communications with the Incident Commander and provide support as required.	동		
	Schedule regular briefings with the Incident Commander. Designate Public Protection Group Supervisor and On-Site Group Supervisor, as required.	Z		
Leve		읃		
	Continue with previous actions.	S		
	Instruct On-Site Group Supervisor to establish the On-Site Command Post.	SS		
	Facilitate Tactics Meeting with the Site Safety Officer, Site Logistics Section Chief, and Admin/Finance Section Chief. Discuss how the objectives will be met. Review strategy and required resources to satisfy the objectives.	OPERATIONS SECTION CHIEF		
	Prepare the ICS 215 – Operational Planning Worksheet with assistance from the Site Safety Officer and Site Logistics Section Chief or EOC Logistics Chief. Document all decisions made during the Tactics Meeting concerning resource assignments and needs for the next operational period. Share completed ICS 215 with all Command and General Staff.	OPER		
	Prepare the ICS 204 – Assignment List, obtain sign-off from the Planning Section and approval from Incident Commander prior to dissemination as part of the Incident Action Plan.	SITE		
	Distribute approved Incident Action Plan to the Incident Commander.			
	Participate in the Operations briefing.			
	Implement Incident Action Plan in coordination with the Incident Commander, On-Site Group Supervisor, Public Protection Group Supervisor, and Staging Area Manager.			
	Identify EPZ boundaries.			
	Evaluate how many stakeholders are inside the EPZ. Account for residents, businesses, First Nations persons, trappers, guide/outfitters, grazing lessees, transients, highways, waterways, railroads and public facilities.			
	In coordination with the Incident Commander and Public Protection Group Supervisor, determine applicable public protection method, public notification/evacuation, EPZ isolation (roadblock), air quality monitoring and Reception Centre activation strategy.			
	Review strategy with Safety Officer and instruct the development of safe protocols, procedures, and messaging for each component of the Public Protection Strategy and On-Site response.			
	Direct Public Protection Group Supervisor to identify and, if needed, to acquire appropriate resources to implement and initiate Public Protection Strategy			
	Determine what methods of communication are available to the Team Directors and Team Leaders and schedule regular briefings.			
	Ensure the Public Protection Group Supervisor deploys required voluntary evacuation assistance to residents identified as having special needs.			



		SITE OPERATIONS SECTION CHIEF	
		If required, instruct the Public Protection Group Supervisor to establish a Reception Centre for any evacuated residents. Ensure appropriate public messaging and forms are available for the Reception Team.	
		Review the topographical information, weather data and weather forecast information.	
		Instruct the Public Protection Group Supervisor to implement the appropriate air quality monitoring strategy. (<i>Note:</i> ensure Air Quality Monitoring Team is taking place at the nearest downwind un-evacuated location).	
		Instruct the Public Protection Group Supervisor to ready Roadblock Team and stand by. (Review maps, location of set up. kits, communications, forms appropriate scripts and review safe activation and manning protocols.)	
		In coordination with the On Site Group Supervisor, assess the requirements for on-site safety supervision, personnel, equipment, and other contract services.	
4.5		Provide direction to the On-Site Group Supervisor to address on-site safety, fire control, isolation, equipment damage, repair, spill response, site security, and waste management as required.	
SITE		Assess the requirements for on-site safety supervision, personnel, equipment and other contract services.	
ΕÜ		Coordinate with the Logistics Section Chief (if assigned) to obtain equipment and resources.	
유		Compile and display incident information.	
労		Ensure the assignment of roles to personnel is appropriate for the size and complexity of the incident.	
AT	Level 2		
Ş		Continue with previous actions.	
S		Direct Public Protection Group Supervisor to revisit EPZ boundaries.	
SE		Direct Public Protection Group Supervisor to initiate Public Protection Strategies (shelter and/or evacuation procedures).	
L3		Ensure transient surveys are completed.	
0		Ensure mobile environmental and/or air quality monitoring is taking place at the nearest un-evacuated downwind location.	
Ž		Ensure roadblocks are established.	
OPERATIONS SECTION CHIEF		When required, dispatch a Staging Area Manager to establish and coordinate operations at the Staging Area. Note the Staging Area must be located outside the EPZ and near the incident site.	
		Evaluate ignition criteria and communicate with the Incident Commander regarding ignition decision.	
		Ensure field responders are promptly notified of any status updates.	
		Continually reassess the situation and the risk to life and safety.	
	Level 3		
		Continue with previous actions.	
		Confirm with Public Protection Group Supervisor that all members of the public in the EPZ have been evacuated and/or sheltered.	
		Ensure Public Protection Group Supervisor has established a protocol for resident updates and evacuees are provided with updated information.	
		Maintain security.	
		Evaluate monitoring data and expand planning zone if required.	
		Review Ignition Criteria to determine if any one of the criteria have been met and coordinate ignition decision with the Incident Commander.	



	OPERATIONS SECTION CHIEF			
Dead	Deactivation			
	Discuss downgrading of emergency with Incident Commander once it has been determined that the incident site is controlled.	CHIEF		
	Notify all responders once the decision to downgrade the emergency has been made.	호		
	If a serious injury or death has occurred, the scene must be left as undisturbed as possible until the appropriate authorities can complete a site investigation.	SECTION		
	In coordination with the Planning Section and Public Protection Group Supervisor, develop a re-entry plan that ensures, security of residences and safety of people including, maintaining EPZ roadblocks, appropriate messaging for evacuees, Air quality and comfortable conditions in evacuated residences and any other appropriate re-entry considerations.			
	Instruct the Public Protection Group Supervisor to implement re-entry plan.	Ĕ		
	Ensure that the Public Protection Group Supervisor notifies all evacuees that the emergency has been downgraded.	\ Martin		
	Ensure that the Public Protection Group Supervisor and re-entry team assist evacuees in returning to their residences/businesses as required.	OPERATIONS		
	Ensure that the Public Protection Group Supervisor collects all Resident Expense Claims form and forward them to the Finance Admin Section Chief.	SITE		
	Gather all incident related documentation from the Operations Sections and forward to the Planning Section Chief.			
	Participate in post-incident debriefing held by Incident Commander.			
	Participate in any Critical Incident Stress Debriefing, as required.			

Form	Forms		
	ICS 204 – Assignment List		
	ICS 214 – Activity Log		
	ICS 215 – Operational Planning Worksheet (to be completed with support from Site Safety Officer and Site Logistics Section Chief or EOC Logistics Chief)		
	ICS 234 – Work Analysis Matrix		
	Status Board		

2025 Section 3.0 Page 9 of 38



3.5 Public Protection Group Supervisor

The Public Protection Group Supervisor is responsible for initiating and managing public protection measures. Working closely with air quality monitoring, evacuation and roadblock personnel, the Public Protection Group Supervisor ensures the efficient notification and/or evacuation of residents, businesses, industrial operators and transients.

PUBLIC PROTECTION GROUP SUPERVISOR				
Location				
	Incident Command Post			
Take	es Direction From			
	Operations Section Chief.			
Give	es Direction To			
	Roadblock Team Leader.			
	Rover Evacuation Team Leader.			
	Air Quality Monitoring Team Leader.			
	Reception Team Leader.	Į į		
	Telephone Team Leader.			
Aler	t/Minor	ER		
	Document all activities utilizing the ICS 214 – Activity Log.	J D		
	Determine operating location and setup as necessary.	S		
	Determine what resources your position may require.	<u> </u>		
	Review ERP map.	요		
Leve	el 1	<u>ত</u>		
	Continue with previous actions.	Ó		
	Establish communication with the Operations Section Chief.	E		
	Proceed to Incident Command Post.	ĽЩ		
	In coordination with the Incident Commander and Operations Section Chief, determine applicable public protection method, public notification/evacuation, EPZ isolation (roadblock), air quality monitoring and Reception Centre activation strategy.	PUBLIC PROTECTION GROUP SUPERVISOR		
	Identify and if needed, acquire appropriate resources to initiate public protection including the following positions: Roadblock, Rover, Air Quality Monitoring, Reception and Telephone Team members.	TIC		
	With the Public Protection Team, review public protection requirements, EPZ inventory, wind direction and speed, roadblock locations and downwind impacts.	PUB.		
	In coordination with Safety Officer, instruct the Public Protection Team on safe protocols, procedures and messaging for each component of the public protection strategy.			
	In coordination with the Information Officer, ensure the Public Protection Team retrieves the public messaging scripts appropriate for the public protection method being employed (Voluntary Evacuation, Shelter-In Place, Media Messaging).			
	When instructed, implement the required voluntary evacuation assistance to residents identified as having special needs.			
	If required, request the Reception Centre Team to establish the reception centre. Ensure they have all the required documentation,			
	public messaging and media releases (if required).			
	Dispatch the appropriate Air Quality Team members to begin developing base line air quality in any downwind un-evacuated areas.			
	Ensure incident information and status updates are relayed to the Reception Centre Team for the evacuees.			
	Establish and maintain reporting cycles with all Public Protection Team Leaders.			



		PUBLIC PROTECTION GROUP SUPERVISOR		
	Lev	el 2		
		Continue with previous actions.		
		In coordination with the Information Officer, ensure the Public Protection Team has the public messaging scripts appropriate for the Public Protection Method being employed (Mandatory Evacuation, Shelter-In Place, Roadblock message and Media Messaging).		
		Ensure the Telephone Team Leader contacts residents and other non-resident land users to evacuate or Shelter-In-Place as instructed. Gather all contact/non-contact information and relay to the Rover Team Leader.		
		Ensure the Rover Evacuation Team travels the EPZ and contacts residents, transients, and non-resident land users in person.		
		Ensure the EPZ has been swept in a timely fashion and roadblocks are in place to isolate the EPZ.		
Р	٥	If not established at a Level 1, instruct the Reception Centre Team to establish the Reception Centre. Ensure they have all the required documentation and public messaging.		
PUBLIC PROTECTION GROUP SUPERVISOR		Ensure air quality monitoring occurs downwind with priority being directed to the nearest unevacuated residence or areas where people may be present.		
꾸		Record all air quality monitoring results from the Air Quality Monitoring Team Leader.		
õ		Ensure field responders are promptly notified of any status updates.		
一品		Continually reassess the situation and the risk to life and safety.		
CT		Review information from the Roadblock, Rover, Evacuation, Air Quality Monitoring and Telephoner Teams.		
◙		At pre-determined intervals, report status and discuss responses with Operations Section Chief.		
2	Level 3			
l X		Continue with previous actions.		
2		Update the Operations Section Chief of status		
P		Ensure Rover Evacuation Team has successfully evacuated the EPZ.		
SU		Ensure the Roadblock Team Leader maintains roadblocks as required.		
ᇛ		Ensure the EPZ is being monitored effectively by the Air Quality Monitoring Team Leader.		
₽		Ensure Telephone Team Leader is providing ongoing status updates to impacted stakeholders.		
/IS		Ensure Reception Team Leader has a record of all evacuees and has provided and expense claim forms for all evacuees.		
유	Dea	nctivation		
		Ensure all evacuees are notified of the downgrading of the level of emergency.		
		In coordination with the Operations Section Chief and Planning Section, develop a re-entry plan that ensures security of residences		
		and safety of people including maintaining EPZ roadblocks, appropriate messaging for evacuees, air quality and comfortable conditions		
		in evacuated residences and any other appropriate re-entry considerations.		
		Using the Public Protection Team, Implement re-entry plan for evacuees. Ensure residences/businesses are ventilated as required		
	_	and that monitoring of gas pockets continues to take place.		
		Ensure evacuees are provided assistance in returning to their residences/businesses as necessary.		
		Ensure evacuee's evacuation expenses and damage claims are collected.		
		Gather all incident related documentation from the Public Protection Team and forward to the Planning Section Chief.		
		Participate in the post-incident debriefing held by the Incident Commander.		
		Participate in any Critical Incident Stress Debriefing as required.		

Forms	
	ICS 214 – Activity Log
	Stakeholder Contact Record
	ICS 234 – Work Analysis Matrix
	Status Board



3.5.1 Roadblock Team Leader

The Roadblock Team Leader has the responsibility to secure the perimeter of the EPZ through road closures and monitoring in coordination with the local police, local authority, or road maintenance personnel. The leader will appoint an appropriate number of personnel to isolate the EPZ and manage span of control.

	ROADBLOCK TEAM LEADER	
Loca	ation	
	Location not pre-determined.	
Take	es Direction From	
	Public Protection Group Supervisor.	
Con	fers With	
	Public Protection Team.	
Give	es Direction To (via Roadblock Team)	
	Road Traffic.	
Aler	t/Minor	
	Document all activities utilizing the ICS 214 – Activity Log.	
	Review the ERP map and identify all roadblock locations.	
	Dispatch Roadblock Team members to your location for briefing. Instruct them to identify and acquire appropriate equipment to establish their assigned roadblock location. Appoint personnel to positions that allow for management of span of control appropriately. Request them to stand by.	ROADBLOCK TEAM LEADER
	Ensure roadblock team is familiar with alternate routes in the area and directions to the Reception Centre if established.	
	Instruct Roadblock Team on safe protocols, procedures, public messaging and forms for establishing and maintaining roadblock positions.	TEAI
	Obtain safety equipment including SCBA, H ₂ S and LEL monitors (handheld instruments), barricade tape and radio communication as required.	OCK
	Review vehicle requirements to carry out your assignment.	BL
	Fill vehicle fuel tank.	AD
Leve		8
	Continue with previous actions.	_
	Maintain communication with the Roadblock Team and Public Protection Group Supervisor.	
	Continually assess weather conditions in and around the area of emergency.	
	In coordination with the Public Protection Group Supervisor. Ensure Roadblock team maintains readiness.	
<u> </u>	As required, dispatch roadblock teams to their assigned roadblock locations using a safe route and stand by.	
Leve		
	Continue with previous actions.	
	Establish roadblocks at required sites to secure identified EPZ.	
	Engage the four-way flashers on your vehicle and don illuminated traffic vest so you are visible to traffic.	
	Do not completely block the road, leave at least one lane open.	
	Take air quality monitoring readings periodically for your safety and reposition as necessary. Document all readings, including zero.	
	Record any incoming and outgoing vehicles and equipment. Confirm if the residents leaving the EPZ are proceeding to the designated Reception Centre. Update the Public Protection Group Supervisor of status at scheduled intervals.	



		ROADBLOCK TEAM LEADER
	Lev	rel 3
RO		Continue with previous actions.
Ð		Report any significant or unusual activities.
ROADBLOCK	Deactivation	
		Ensure all roadblock equipment is cleaned and returned to its proper location.
TEAM		Gather all incident related documentation from the Roadblock Team and forward to the Public Protection Group Supervisor if appointed, or Planning Section
		Participate in the post-incident debriefing held by the Incident Commander.
		Participate in any Critical Incident Stress Debriefing as required.

Note: The licensee has the responsibility to protect the public by activating roadblocks. Restricting access to the hazard area will remain under the authority of the applicable agency (i.e. police, RCMP, fire department, road maintenance contractor, regulatory authority, etc.). If someone insists on going through the roadblock, attempt to gather their information and provide it through your chain of command

Forms	
	ICS 214 – Activity Log
	Roadblock Checkpoint Record
	Environmental Monitoring Record
	Roadblock Statement
	Media Message

2025 Section 3.0 Page 13 of 38



3.5.2 Rover Evacuation Team Leader

The Rover Evacuation Team Leader is responsible for identifying and evacuating all members of the public within the response zones. He/she provides support to those who need evacuation assistance by checking residences, businesses, trappers, Guide/Outfitters, transients, and seasonal and casual area users. Note: wording in forms for public interface may need to be adjusted for in person delivery rather than telephone delivery.

	ROVER EVACUATION TEAM LEADER	
Loca	ation	
	Location not pre-determined.	
Take	es Direction From	
	Public Protection Group Supervisor.	
Con	fers With	
	Public Protection Team, Public Protection Supervisor	
Give	es Direction To (via Rover Evacuation Team)	
	Residents.	
	Businesses.	
	Trappers.	
	Guide/Outfitters.	
	Transients.	
	Seasonal and casual area users.	~
Aler	t/Minor	岜
	Document all activities utilizing the ICS 214 – Activity Log.	×
	Establish communication with the Public Protection Group Supervisor.	٣
	Review the ERP map. Identify all stakeholders in the EPZ.	₹
	Determine number of personnel required to efficiently communicate with people and sweep the EPZ.	围
	Consider the need for a helicopter evacuation team to assist with evacuation in large or difficult terrain. Check availability	Ž
	Review all forms and messaging required for the different levels of emergency. Confer with Public Protection Group Supervisor and Public Information Officer on appropriate messages to deliver.	ROVER EVACUATION TEAM LEADER
	Obtain safety equipment including SCBA, H ₂ S and LEL monitors (handheld instruments) and radio communication, as required.	ತ
	Ensure a sufficient supply of appropriate forms.	\geq
	Review vehicle requirements to carry out your assignment.	2
	Fill vehicle fuel tank.	M
	Review product release rates, wind direction, and safest egress routes.	0
Leve		Ť
	Continue with previous actions.	
	Review the boundaries of the response zones.	
	Reevaluate how many members of the public could be inside the EPZ and the response zones. Account for residents, businesses, First Nations persons, trappers, guide/outfitters, grazing lessees and transients.	
	Identify highways, waterways, railroads, airports, campgrounds, hiking trails, etc. where stakeholders may be located.	
	Assess weather conditions in and around the area of the emergency. Determine if weather conditions could impact or impede emergency response efforts.	
	Identify and gather the required number of Rovers. Review map, forms, public messaging, location each are to rove and communication protocols. Standby and prepare to dispatch.	
	Prepare and implement Incident Action Plan in coordination with the Public Protection Group Supervisor.	
	Commence transient survey.	
	Advise members of the public that requested early notification or identified as having special needs of the incident. Provide evacuation assistance if requested.	
	Gather all Telephone Team contact data from the Public Protection Group Supervisor. Advise Rover Evacuation team of telephone contact status.	



		ROVER EVACUATION TEAM LEADER		
	Lev	Level 2		
		Continue with previous actions.		
		Report any observations or issues which may negatively impact evacuations.		
		Take air quality monitoring readings periodically for your safety. Document all readings, including zero.		
		Ensure all public locations are visited and evacuated.		
_		When contacting stakeholders identify yourself, speak slowly and confidently.		
õ		Document time of arrival.		
ROVER		Account for all members of the household, business or dwelling. Inquire as to the whereabouts of anyone not present.		
ER EVACUATION		Review the condition of stakeholders and identify any special requirements.		
		Relay travel time and directions to the reception centre using safe egress routes.		
		Check all fields and vacant locations to ensure that they are empty.		
Ë		Post a Notice of Evacuation on all doors of each unoccupied residence and business, on each outbuilding and the windshield of each unattended		
≟		vehicle within the evacuated zones.		
9		Expand transient survey if EPZ is increased.		
Ξ		Update the Public Protection Group Supervisor of status at scheduled intervals.		
TEAM	Lev	Level 3		
		Continue with previous actions.		
ĺπ		Ensure EPZ has been evacuated.		
LEADER		Update the Public Protection Group Supervisor of status at scheduled intervals.		
罗	Dea	ctivation		
		Continue to monitor for gas pockets.		
		Assist evacuees in returning to their residences/businesses as required.		
		Ventilate residences/businesses as required.		
		Provide Company phone number in the event of additional concerns or questions.		
		Gather all incident related documentation from the Rover Team and forward to the Public Protection Group Supervisor if appointed, or Planning		
		Section		
		Participate in the post-incident debriefing held by the Incident Commander.		
		Participate in any Critical Incident Stress Debriefing, as required.		

Forms (All	Forms (All Rover Team)		
	ICS 214 – Activity Log		
	ICS 234 – Work Analysis Matrix		
	Stakeholder Contact Record		
	Media Message		
	Environmental Monitoring Record		
Public Prot	ection Messages/Scripts		
	Notification Script		
	General Evacuation Script		
	Shelter In Place script		
	Urgent Evacuation Script		
	Notice of Evacuation		

2025 Section 3.0 Page 15 of 38



3.5.3 Air Quality Monitoring Team Leader

The Air Quality Monitoring Team uses air quality monitoring equipment and personnel to identify and track the extent of the plume associated with a gas release to atmosphere.

	AIR QUALITY MONITORING TEAM LEADER				
Loc	ation				
	Location not pre-determined.				
Tak	es Direction From				
	Public Protection Group Supervisor.				
Con	fers With				
	Public Protection Team.				
Give	es Direction To				
	Mobile air quality monitoring unit.				
	t/Minor				
	Document all activities utilizing the ICS 214 – Activity Log.				
	Review ERP map, product release rates, wind direction, and safest egress routes.				
	Review stakeholder locations and proximity to urban developments.	2			
	Obtain radio communication equipment, as required.				
	Verify operational condition and appropriateness of plume monitoring equipment.	一河			
	Ensure a sufficient supply of appropriate forms.	=			
	Review vehicle requirements to carry out your assignment.	I			
	Fill vehicle fuel tank.	Ħ			
Lev	el 1	8			
	Continue with previous actions.				
	Establish communication with the Public Protection Group Supervisor.	Ĕ			
	Prepare and implement Incident Action Plan in coordination with the Public Protection Group Supervisor.	S			
	If safe to do so, perform air quality monitoring with hand-held aspirating detectors until mobile air quality monitoring unit arrives. Document all readings, including zero.	AIR QUALITY MONITORING TEAM LEADER			
	Confirm dispatch of the mobile air quality monitoring unit, if required.	Ė			
Lev		₹			
	Continue with previous actions.	ਰ			
	Track the plume perimeter and record measured concentration.	\ \ \ \ \			
	Where a release has the possibility of being sustained, the EPZ must be redefined using mobile monitoring vehicles equipped with devices to continuously measure and record wind speed, directions and concentrations.				
	Air quality monitoring must occur downwind with priority being directed to the nearest un-evacuated residence or area where people				
	may be present.				
	If the EPZ includes a portion of an urban density development, mobilize sufficient air quality monitoring units so that one unit will be dedicated to the urban density development.				
	In coordination with the Public Protection Group Supervisor, provide monitored information to applicable Regulatory Authority, local authority, local health authority and environmental authority on a regular basis throughout the emergency.				
	Update the Public Protection Group Supervisor of status at scheduled intervals.				
Lev	Level 3				
	Continue with previous actions.				
	Ensure the EPZ is being monitored effectively.				
	Provide Air Quality Monitoring Record reports to the Public Protection Group Supervisor.				
	Update the Public Protection Group Supervisor of status at scheduled intervals.				



AIR QU MONIT		AIR QUALITY MONITORING TEAM LEADER
	Dea	nctivation
٦ĕ		Collect and submit all reports and documents to the Public Protection Group Supervisor.
		Determine from the Public Protection Group Supervisor if your position will require any follow up actions before you leave the scene.
STY		Participate in the post-incident debriefing held by the Incident Commander.
		Participate in the Critical Incident Stress Debriefing as required.

Forms	
	ICS 214 – Activity Log
	Media Message
	Environmental Monitoring Record



3.5.4 Reception Team Leader

The Reception Team Leader is responsible for establishing a Reception Centre at a suitable location outside the EPZ and addressing the concerns and immediate needs of evacuated stakeholders.

	RECEPTION TEAM LEADER	
Loca	ation	
	Reception Centre.	
Take	es Direction From	
	Public Protection Group Supervisor.	
Con	fers With	
	Public Protection Team.	
Give	es Direction To	
	Evacuated stakeholders.	
Aler	t/Minor	
	Document all activities utilizing the ICS 214 – Activity Log.	
	Prepare reception centre kit (pen, paper, area phone book, registration forms, and title badges).	
Leve		
	Continue with previous actions.	
	Identify appropriate Reception Centre.	
	Contact reception centre to make necessary arrangements.	
	Determine number of personnel required to efficiently manage the Reception Centre. Identify and, if required, dispatch additional	Ω
	Reception Centre Personnel to your location.	4
	Review map, forms, public messaging, and communication protocols. Stand by and be prepared to start.	FΔ
	Review all forms and messaging required for evacuated people at the Reception Centre. Confer with Public Protection Group	=
	Supervisor and Public Information Officer on appropriate messages to deliver.	V V
	Prepare and implement Incident Action Plan in coordination with the Public Protection Group Supervisor. Proceed to designated Reception Centre and prepare facility to receive evacuees if evacuation is probable.	1
	Request, receive and deliver incident information and status to the evacuees.	Z
	Set up communication with the Public Protection Group Supervisor.	ΙL
Leve		RECEPTION TEAM! EADER
	Continue with previous actions.	SE(
	Receive evacuees and record names of evacuees who arrive at the Reception Centre.	_
	Receive school children who live inside the EPZ whose school buses have been redirected to the Reception Centre. Children must be	
]	supervised until they are picked up by their parents or guardians.	
	If necessary, arrange for a school administrator to come to the Reception Centre.	
	Address evacuees' immediate needs for food and housing.	
	Ensure all media releases, company public messages and status update forms are posted in the Reception Centre.	
	Provide information to the evacuees on the status of the incident.	
	Record details of temporary destinations and contact numbers when evacuees leave the Reception Centre. Discuss immediate expense issues. Provide expense claim forms as requested.	
	Relay concerns regarding requirements for ongoing care of livestock to the Public Protection Group Supervisor, if applicable.	
	Provide support to evacuees who may be emotionally upset.	
	Update the Public Protection Group Supervisor of status at scheduled intervals.	
Leve		
	Continue with previous actions.	
	Verify with Public Protection Group Supervisor that all members of the public have been evacuated.	
	Continue with status updates for residents and other concerned members of the public.	
	Update telephone contacts for evacuees as required.	
	Update the Public Protection Group Supervisor of status at scheduled intervals.	



꼬		RECEPTION TEAM LEADER
RECEP	Dea	nctivation
Ä		Advise evacuees that they may return to their residences and arrange any assistance.
ON C		Collect and document all evacuation expense claims, provide copies to the Public Protection Group Supervisor.
Z		Gather all incident related documentation from the Reception Centre Team and forward to the Public Protection Group Supervisor.
Œ		Provide Company phone number in the event of additional concerns or questions.
×		Participate in post-incident debriefing held by the Incident Commander.
		Participate in the Critical Incident Stress Debriefing as required.

Forms	
	ICS 214 – Activity Log
	Evacuee Expense Claim Form
	Reception Centre Registration Form
	Media Message

2025 Section 3.0 Page 19 of 38



3.5.5 Telephone Team Leader

The Telephone Team Leader is responsible for contacting impacted stakeholders to provide updates regarding any emergency situation when necessary. Communication will be facilitated using the appropriate scripts as a guide.

	TELEPHONE TEAM LEADER	
Loc	ation	
	Location not pre-determined.	•
Take	es Direction From	
	Public Protection Group Supervisor.	4
Con	fers With	
	Public Protection Team.	•
Give	es Direction To (via Telephone Team)	
	Area Stakeholders.	4
Aler	t/Minor	
	Document all activities utilizing the ICS 214 – Activity Log.	4
	Review the ERP map.	1
	Assemble required telephone team forms.	1
	Review area stakeholder list and phone numbers, if applicable.	
	Review the Communication Plan scripts.	
	Identify appropriate space and communication devices to facilitate stakeholder telephone notification, if required.	
Leve	el 1	E
	Continue with previous actions.	AD.
	Develop and implement Incident Action Plan in coordination with the Public Protection Group Supervisor.	Ē
	Standby and prepare to initiate stakeholder telephone notification.	Ξ
	Recruit and review action plan with assistants as required.	EA
	Prepare evacuation or shelter-in-place phone messages based on direction from the Public Protection Group Supervisor and Public Information Officer. Use scripts in the manual for consistent wording and clarity.	TELEPHONE TEAM LEADER
	Gather location and directions to the Reception Centre. Ensure all team members have Reception centre information.	모
	Notify stakeholders and other area users inside the EPZ so they may choose whether to voluntarily evacuate.	品
	An automated telephone notification system can be used but prepare to follow-up the automated system with personal contact from the Telephoner Team.	Ī
	Record all details of contacts using the Stakeholder Contact Record for documentation.	
	Advise the Public Protection Group Supervisor about stakeholders requiring assistance.	_
	Update the Public Protection Group Supervisor of status.	_
Leve		
	Continue with previous actions.	_
	Contact stakeholders and other area users in EPZ and advise them to evacuate.	_
	Confirm the location of the Reception Centre so coordination with stakeholders can occur.	_
	If school is in session, contact impacted schools and school bus authorities. This contact is not to be made by an automated telephone system.	
	Coordinate with the Reception Team Leader and request a school administrator assist with the effective management of the students and parents at the Reception Centre.	
	Document and track the status of stakeholders who have evacuated or sheltered.	
	Update the Public Protection Group Supervisor of status at scheduled intervals.	
Leve		
	Continue with previous actions.	
	Continue phoning stakeholders who have been unreachable.	
	Remain on standby to assist with telephone calls as required.	
	Undate the Public Protection Group Supervisor of status at scheduled intervals	



		TELEPHONE TEAM LEADER
[교	Dea	ctivation
記号		As instructed by the Public Protection Group Supervisor, advise all evacuees that they may return.
N N N N		Ensure a post-incident telephone message is communicated to the public impacted by the emergency.
MONE		Collect all incident related documentation from the telephone team and submit to the Public Protection Group Supervisor.
т		Participate in the post-incident debriefing held by the Incident Commander.
		Participate in the Critical Incident Stress Debriefing as required.

Forms	
	ICS 214 – Activity Log
	ICS 234 – Work Analysis Matrix
	Stakeholder Contact Record
Public Prot	tection Messages/Scripts
	Notification Script
	General Evacuation Script
	Shelter In Place script
	Urgent Evacuation Script



3.6 On-Site Group Supervisor

The On-Site Group Supervisor is responsible for establishing the On-Site Command Post and coordinating personnel and equipment to address control, containment and recovery from the incident.

	ON-SITE GROUP SUPERVISOR	
Loc	ation	
	On-Site Command Post.	
Tak	es Direction From	
	Operations Section Chief.	
Con	rifers With	
	Public Protection Group Supervisor.	
	es Direction To	
	Fire Control Team Leader.	
<u> </u>	Isolation/Repair Team Leader.	
=	Spill Response Team Leader.	
<u> </u>	Security Team Leader.	
	Ignition Team Leader.	
	On-Site Safety Team Leader	
Aler	rt/Minor	
	Document all activities utilizing the ICS 214 – Activity Log.	
<u> </u>	Identify hazards.	<u>~</u>
	Attend to medical needs.	ō
	Request emergency medical services, as required.	S
	Isolate the scene.	H.
Lev	el 1	ON-SITE GROUP SUPERVISOR
	Continue with previous actions.	<u>Б</u>
	Establish communication with the Operations Section Chief.	2
	Discuss the incident situation and actions to be taken with the Operations Section Chief.	, M
	Release non-essential personnel.	Ш
	Isolate the immediate area until the Public Protection Group Supervisor assumes this responsibility.	Ë
	Activate appropriate Source Control Team Leaders to address the incident.	5
	Ensure all on-site personnel follow the appropriate safe work procedures.	ō
	Ensure all on-site personnel have the appropriate training and personal protective equipment.	
	Assess the requirements for on-site safety supervision, equipment, and personnel. Appoint On-Site Safety Team Leader as required.	
	Coordinate on-site responses to gain control, shutdown, isolate, and depressure equipment, as required.	
	Review dangerous conditions near the incident site. For example, fuel leaks, toxic gas releases, oxygen deficiency, BLEVE, ignition	
	sources and chemical leaks.	
	Build dykes with available materials to stop leaks from travelling off-lease or into waterways.	
	Evaluate ignition criteria and communicate with the Operations Section Chief regarding ignition decision.	
	Obtain spill samples as required and monitor environment for adverse effects. Record and report all readings at established intervals to the Operations Section Chief.	
_		
Lev		
	Continue with previous actions.	
	Update the Operations Section Chief of status. Continue spill sampling.	
	Ensure field responders are promptly notified of any status updates.	
	Continually reassess the situation and the risk to life and safety.	
	In conjunction with the Operations Section Chief, choose a qualified ignition team, discuss ignition duties and check ignition equipment	
	in advance of meeting any ignition criteria.	
	Confirm with the Operations Section Chief that you have the authority to ignite if required	



		ON-SITE GROUP SUPERVISOR
ON-SITE	Lev	rel 3
SI		Continue with previous actions.
ਜ਼		Update the Operations Section Chief of status at scheduled intervals.
ရှ		Initiate ignition procedure if ignition criteria have been met (upon consultation with Site Operations Section Chief).
GROUP	Dea	activation
_		Ensure site is safe.
SUI		Ensure the incident site is not disturbed until all necessary site investigations have been completed by the appropriate authority.
SUPERVISOR		Ensure all work areas, safety equipment, machinery, and tools are cleaned, repaired and returned to their proper location.
<u> </u>		Ensure that on-site personnel and equipment including contracted services are decontaminated before leaving the incident site.
ő		Collect all incident related documentation from the on-site teams and submit to the Site Operations Section Chief.
70		Participate in the post-incident debriefing held by the Incident Commander.
		Participate in any Critical Stress Incident Debriefing, as required.

Forms	
	ICS 214 – Activity Log
	ICS 234 – Work Analysis Matrix
	Spill/Release Written Report Form

2025 Section 3.0 Page 23 of 38



3.6.1 Isolation/Repair Team Leader

The Isolation/Repair Team Leader is responsible for emergency shutdown, isolation, depressurization, troubleshooting, and repair efforts with the On-Site isolation/repair personnel and the On-Site Team members.

	ISOLATION/REPAIR TEAM LEADER	•
Loca	ation	
	On-Site Command Post.	
Take	es Direction From	
	On-Site Group Supervisor.	
Con	fers With	~
	On-Site Team.	造
Give	es Direction To	LEADER
	On-Site isolation/repair personnel.	쁘
All L	Levels	SOLATION/REPAIR TEAM
	Document all activities utilizing the ICS 214 – Activity Log.	担
	Identify hazards involved.	· ~
	Account for all personnel on-site.	₽
	Evacuate immediate work area.	
	Go to muster point.	l j
	When possible, confirm situation with back-up personnel.	◙
	Determine if situation requires isolation and/or emergency shutdown of an individual piece of equipment.	AT
	Determine if situation requires complete shutdown of facility.	7
	Contact the On-Site Group Supervisor for further instructions and provide the exact location of the incident.	<u>S</u>
	Implement Incident Action Plan in coordination with the On-Site Group Supervisor.	
Dea	ctivation	
	Ensure site is safe.	
	Ensure all work areas, safety equipment, machinery, and tools are cleaned, repaired and returned to their proper location.	
	Complete and submit all incident related documentation to the On-Site Group Supervisor.	
	Participate in the post-incident debriefing held by the Incident Commander.	
	Participate in any Critical Stress Incident Debriefing, as required.	

Forms		
	ICS 214 – Activity Log	
	, , ,	

2025 Section 3.0 Page 24 of 38



3.6.2 Fire Control Team Leader

The Fire Control Team Leader is responsible for coordinating the fire suppression efforts with the local fire department, industrial firefighting contractors, and the On-Site Team members.

	FIRE CONTROL TEAM LEADER	-
Loca	tion	
	On-Site Command Post.	
Take	s Direction From	
	On-Site Group Supervisor.	
Conf	ers With	
	Local Fire Department.	
	Industrial Firefighters.	2
	On-Site Team.	ğ
Give	s Direction To	Ä
	On-Site Fire Control Personnel.	Ξ
All L	evels	FIRE CONTROL TEAM LEADER
	Document all activities utilizing the ICS 214 – Activity Log.	
	Inventory number, type and location of fire extinguishers.	Ş
	Proactive notification to local Fire Department.	ΙË
	Establish communication with the On-Site Group Supervisor.	l 6
	Determine classification of fire.	ပ
	Prepare and implement Incident Action Plan in coordination with the On-Site Group Supervisor.	2
	Request assistance from local Fire Department or Industrial Firefighters. Note: Logistics Section Chief will provide support.	正
	Use a fire extinguisher only when it can be done safely.	
	Contain fire until fire department or additional firefighting resources arrive.	
Dead	tivation	
	Ensure site is safe.	
	Ensure all work areas, safety equipment, machinery, and tools are cleaned, repaired and returned to their proper location.	
	Complete and submit all incident related documentation to the On-Site Group Supervisor.	
	Participate in the post-incident debriefing held by the Incident Commander.	
	Participate in any Critical Stress Incident Debriefing, as required.	

Form	Forms	
	ICS 214 – Activity Log	



3.6.3 Spill Response Team Leader

The Spill Response Team Leader is responsible for coordinating spill, containment, and clean-up efforts to minimize impairment to the environment, human health, or property.

	SPILL RESPONSE TEAM LEADER					
Loc	Location					
	On-Site Command Post					
Take	Takes Direction From					
	On-Site Group Supervisor.					
Con	fers With					
	On-Site Team.					
Give	es Direction To					
	Spill Responders.					
Aler	t/Minor					
	Document all activities utilizing the ICS 214 – Activity Log.	-				
	Collect date, time, name, and contact numbers from the person who reports the spill.	-				
	Dispatch initial responders to incident site.					
	Establish site control.	~				
	Analyze the situation.	1 5				
	Establish a muster point.	A A				
	Identify the type and volume of spill product.	"				
	Report the incident to the On-Site Group Supervisor.	Σ				
	Implement spill response objectives in coordination with the On-Site Group Supervisor.	E				
Leve	el 1	SPILL RESPONSE TEAM LEADER				
	Continue with previous actions.	S				
	Dispatch spill responders and equipment to the incident site.	ō				
	Control all access to the incident site.	S				
	Identify the contamination zone, support zone, and equipment staging area.					
	Identify an emergency signal, escape routes, and meeting location for response personnel.					
	Place a wind indicator at appropriate locations.	른				
	Establish an entry and exit checkpoint at the periphery of the incident site.	ြ				
	Monitor weather conditions that could hinder the spill response.					
	Identify area stakeholders and environmental sensitivities.					
	Identify designated spill control points.					
	Initiate containment and recovery operations.					
	Develop a waste management plan.					
	Develop sampling and analysis strategy.					
Leve	el 2					
	Continue with previous actions.					
	Establish a bulletin board.					
	Post site safety plan, SDS, crew roster sheets, status reports, and other relevant information.					
	Obtain radios and megaphones to direct communications on-site.					
	Establish first aid station in a visible area with appropriate facilities and supplies.					
	Establish a decontamination area where responders can remove contaminated clothing, wash up and return clean equipment.					
	Create diagrams of response strategies, e.g. trenching berm, setting up a boom, blocking a culvert, etc.					



SP	=	SPILL RESPONSE TEAM LEADER
₽	Lev	el 3
		Continue with previous actions.
RES	Deactivation	
PON		Ensure site is safe.
RSE		Ensure all work areas, safety and spill equipment, machinery, and tools are cleaned, repaired and returned to their proper location.
		Complete and submit all incident related documentation to the On-Site Group Supervisor.
TEAM		Participate in the post-incident debriefing held by the Incident Commander.
		Participate in any Critical Stress Incident Debriefing, as required.

Forms	
	ICS 214 – Activity Log
	ICS 234 – Work Analysis Matrix
	Spill/Release Written Report Form



3.6.4 Security Team Leader

The Security Team Leader is responsible for the security of the site and establishing boundaries to prevent unauthorized entry.

	SECURITY TEAM LEADER	-	
Loc	Location		
	On-Site Command Post.		
Tak	es Direction From		
	On-Site Group Supervisor.		
Con	fers With		
	On-Site Team.		
Give	es Direction To		
	Security Personnel.	I I	
All L	Levels	SECURITY TEAM LEADER	
	Document all activities utilizing the ICS 214 – Activity Log.	₹ ×	
	Investigate and report a security breach that has the potential to impact people, property or the environment.	Ë	
	Monitor and ensure security of the site.	Ė	
	Develop security guidelines for the site and potentially affected area.	L R	
	Establish communication with the On-Site Group Supervisor at scheduled intervals.	EC	
	Implement Incident Action Plan in coordination with the On-Site Group Supervisor.	တ	
	Establish a security perimeter.		
	Control access to the incident site of non-essential personnel.		
	Report any significant or unusual activities immediately to the On-Site Group Supervisor.		
Deactivation			
	Complete and submit all incident related documentation to the On-Site Group Supervisor.		
	Participate in the post-incident debriefing held by the Incident Commander.		
	Participate in any Critical Stress Incident Debriefing, as required.		

Fori	Forms		
	□ ICS 211 – Check-In Record		
	ICS 214 – Activity Log		
	ICS 234 – Work Analysis Matrix		

2025 Section 3.0 Page 28 of 38



3.6.5 Ignition Team Leader

The Ignition Team Leader is responsible for reviewing pre-ignition considerations, preparing ignition equipment and assembling a trained ignition team in the event that ignition criteria is met.

	IGNITION TEAM LEADER				
Loca	Location				
	On-Site Command Post.				
Take	es Direction From				
	On-Site Group Supervisor in coordination with the Site Operations Section Chief and Incident Commander.				
Con	fers With				
	On-Site Team.				
Give	es Direction To				
	Ignition Team Members.				
Aler	t/Minor				
	Document all activities utilizing the ICS 214 – Activity Log.				
	Consider safety and health risks to emergency personnel.				
	Consider proximity of release to public areas.				
	Consider availability of air monitoring equipment and personnel.				
	Consider detectable concentrations of H ₂ S and/or flammable gases near the source of the release and within the EPZ.				
	Consider weather conditions.				
	Consider duration of the release and potential volume.				
	Consider impacts to livestock.				
	Consider impacts to other values at risk including property, timber or infrastructure.				
Leve	Consider impacts to livestock. Consider impacts to other values at risk including property, timber or infrastructure. el 1 Continue with previous actions. Establish communication with the On-Site Group Supervisor. Implement Incident Action Plan in coordination with the On-Site Group Supervisor. Review ignition procedures. Review ignition criteria. Review flare gun manufacturer's loading instructions and specifications.				
	Continue with previous actions.				
	Establish communication with the On-Site Group Supervisor.				
	Implement Incident Action Plan in coordination with the On-Site Group Supervisor.				
	Review ignition procedures.				
	Review ignition criteria.				
	Review flare gun manufacturer's loading instructions and specifications.				
	Prepare ignition equipment.				
	Review training of ignition team members.				
Leve	a) 2				
	Continue with previous actions.				
	Assemble an adequate ignition team, ideally containing four members but never fewer than two members so that there is at least one person for rescue backup.				
	Carry out pre-ignition planning.				
	Monitor the area for combustible gas.				
	Erect windsock and streamers if time permits.				
	If it is not an urgent situation and time permits, consultation with the On-Site Group Supervisor, Site Operations Section Chief, Incident Commander, EOC Operations Chief and Regulatory authorities should be made regarding ignition.				
Leve	Level 3				
	Continue with previous actions.				
	Assemble an adequate ignition team, ideally containing four members but never with fewer than two members so that there is one person for rescue backup.				
	Carry out pre-ignition planning.				
	Monitor the area for combustible gas.				
	If time permits, consultation with the On-Site Group Supervisor, Site Operations Section Chief, Incident Commander, EOC Operations Chief and Regulatory authorities should be made regarding ignition.				



IGI		IGNITION TEAM LEADER
	Dea	ctivation
9		Ensure all work areas, safety equipment, machinery and tools are cleaned, repaired and returned to their proper location.
류		Complete and submit all incident related documentation to the On-Site Group Supervisor.
I ≧		Participate in the post-incident debriefing held by the Incident Commander.
_		Participate in any Critical Stress Incident Debriefing, as required.

Forms	
	ICS 214 – Activity Log
	Stakeholder Contact Record
	Environmental Monitoring Record

2025 Section 3.0 Page 30 of 38



3.7 Staging Area Manager

The Staging Area Manager oversees and controls the movement of equipment, services, and personnel at the staging area.

	STAGING AREA MANAGER			
Location				
Location not pre-determined.				
Takes Direction From				
□ Site Operations Section Chief.				
Confers With				
□ On-Site Team.				
Gives Direction To				
□ Contractors and suppliers.				
Alert/Minor				
□ No assigned duties during an alert/minor.				
Level 1				
□ Document all activities utilizing the ICS 214 – Activity Log.				
Proactively review area map to identify potential staging areas near the incident site and outside of the EPZ.	~			
☐ Ensure potential staging area has an adequately sized site that is stable and level with suitable access roads.	GE			
☐ Ensure potential staging area has no entry problems such as narrow approach ways, gates, power lines, etc.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
☐ Ensure potential staging area has adequate communication reception.	<u>4</u>			
Level 2	STAGING AREA MANAGER			
□ Continue with previous actions.	₹E,			
☐ Ensure approval has been obtained from landowner.	Ā			
☐ Establish a staging area.	9			
☐ Erect staging area information and directional signs to the staging area, if required.				
Flag the perimeter of the staging area.	₹			
Obtain an office trailer and emergency lighting, if required.	S			
Advise the Site Operations Section Chief about the location and directions to the staging area.				
Respond to Site Operations Section Chief's request for resources.				
Coordinate and maintain a log of personnel and services.				
Maintain a copy of the ICS 211 - Check-In List. Provide a completed copy of all resources that are available, in use, and out	t of service			
to the Site Operations Section Chief and EOC Admin/Finance Chief.				
Note: Out of Service resources should not be located at the Staging Area. Level 3				
Continue with previous actions.				
Continue with previous actions. Continue coordinating staging area operations support requirements until incident is concluded.				
Deactivation				
Demobilize or move staging area in accordance with incident demobilization plan.				
Remove all equipment and supplies and coordinate clean-up of the staging area.				
Complete and submit all Staging Area documentation to the Operations Section Chief.				
Participate in post-incident debriefing held by the Incident Commander.				
Participate in any Critical Incident Stress Debriefing, as required.				

For	Forms		
	ICS 211 – Check-In List		
	ICS 214 – Activity Log		
	ICS 234 – Work Analysis Matrix		



3.8 Site Safety Officer

The role of the Site Safety Officer is to develop and recommend measures for assuring the safety of all personnel, as well as to assess and anticipate hazardous situations. The Site Safety Officer reviews the site Incident Action Plan for safety concerns and discontinues any operation which threatens the health and safety of responders.

	SITE SAFETY OFFICER					
Loc	Location					
	Incident Command Post.					
Take	akes Direction From					
	Incident Commander.					
Con	ifers With					
	Section Chiefs.					
	Liaison Officers.					
	Public Information officer					
	On Site Safety Team Lead					
Give	es Direction To					
	Operations Section Chief.					
	On Site Safety Team lead					
All L	Levels					
	Document all activities utilizing the ICS 214 – Activity Log.					
	Continually evaluate risks and identify hazardous situations associated with the incident.	~				
	Assertively make safety concerns known to the Incident Commander.	30 E				
	Exercise emergency authority to stop and prevent unsafe acts.	뜐				
	Prepare ICS 215A – Incident Action Plan Safety Analysis. Collaborate with the On-Site Safety Team lead and Operations Section Chief in the development of the ICS 215A.	SITE SAFETY OFFICER				
	Instruct On-Site Safety Team lead to confirm all workers have required training before they are dispatched to the incident.	臣				
	Prepare ICS 206 – Medical Plan for the operational period to be provided to all Command and General Staff as part of the Incident Action Plan (IAP).	SA				
	Prepare ICS 208 - Safety Message/Plan for the operational period - can be included as part of the IAP.	Ë				
	Review the complete Incident Action Plan for safety implications.	S				
	Document safety message for operation period on the Incident Action Plan.					
	Conduct responder safety orientations, if required.					
	Ensure the proper use of personal protective equipment.					
	Ensure that responder personnel are taking appropriate actions; safe work procedures, proper grounding, bonding procedures, working in teams, etc.					
	Ensure workers who show signs of stress, fatigue or adverse symptoms are demobilized and sent for treatment if necessary.					
	Recommend alternatives for activities which are considered to be unsafe.					
	Ensure incident casualties receive first aid and ongoing care.					
	If any serious injuries occur, ensure the incident scene remains undisturbed, if possible, until there has been a thorough investigation.					
	Investigate accidents that have occurred within the incident area.					
	Document all injuries and on-site medical treatments.					
	Review and approve the medical plan if implemented.					
	Ensure safe and adequate lighting is in place as required.					
	Ensure only intrinsically safe radios are used in the incident area.					
	Ensure that nobody, including contract personnel, works alone.					
	Participate in planning meetings.					
	Continue to follow up and maintain safety responsibilities.					



SITE		SITE SAFETY OFFICER
	Dea	ctivation
SAF		Participate in the post-incident debriefing held by the Incident Commander.
9		Complete and submit all incident related documentation to the Incident Commander
Y		Participate in the Critical Incident Stress Debriefing as required.

Forms	
	ICS 206 – Medical Plan
	ICS 208 – Safety Message/Plan
	ICS 214 – Activity Log
	ICS 215A – Incident Action Plan Safety Analysis



3.9 Liaison Officer

The Liaison Officer interfaces with government agency representatives. The objective of the Liaison Officer is to ensure there is collaborative communication with the government agency representatives and to report communications to the Incident Commander.

	SITE LIAISON OFFICER	
Loca	ation	
	Incident Command Post.	
	Government Emergency Operations Centre (Level 2 and 3).	
Take	es Direction From	
	Incident Commander.	
Con	fers With	
	Section Chiefs.	
	Safety Officer.	
All L	Levels	
	Document all activities utilizing the ICS 214 – Activity Log.	
	Receive briefing from Incident Commander.	꼺
	Evaluate which government agencies have jurisdiction for the type of incident and inside the planning zone.	<u>ဒ</u>
	When requested by the Incident Commander, take measures to request a closure order of the EPZ.	臣
	Notify RCMP, local police and/or local authority to inform them of the location of roadblocks. The authority contacted will be dependent on whether the roadway is a numbered highway, urban roadway, or rural road. Provide them with sufficient information regarding the incident and allow them to determine if they choose to take control of the roadblock.	SITE LIAISON OFFICER
	In coordination with the Incident Commander, complete Regulatory Authority notification according to the applicable requirements.	M
	Review Section 11.1 Jurisdictional Forms to determine required written notifications. Ensure jurisdictional forms are completed and submitted.	ITE L
	Refer to the Notification Requirements for Key Government Agencies and Resources in the Jurisdictional section of this document. (see Section 9.0)	O)
	Determine which government and regulatory notifications have been completed.	
	Receive representatives from the Regulatory Authority, the local authority and local regional health authority at the Incident Command Post.	
	Coordinate the flow of information to and from the government agencies. or appoint a representative to	
	Update the Incident Commander.	
	Travel to or appoint a representative to the Government Emergency Operations Centre, if necessary.	
Dea	ctivation	
	Ensure any agency communications initiated during the emergency, are revisited and communicate call down.	
	Complete and submit all incident related documentation to the Incident Commander	
	Participate in post-incident debriefing held by Incident Commander.	
	Participate in the Critical Incident Stress Debriefing as required.	

Forr	Forms	
О	ICS 214 – Activity Log	
	ICS 234 – Work Analysis Matrix	
	Section 11.0 Jurisdictional Forms, as required	
	Status Board	



3.10 Public Information Officer

The Public Information Officer is the representative in the field that supports the response team with any public interface information and materials. Public Information Officer is responsible for ensuring information about the incident is provided to the EOC Information officer including all media inquiries and response details. Public Information Officer will assist the Public Protection Team ensure they have the appropriate public interface scripts and messages at the appropriate times during the response.

	PUBLIC INFORMATION OFFICER	
Loca	ation	
	Incident Command Post.	
	Reception Centre (as required if established).	
Take	es Direction From	
	Incident Commander.	
	EOC Information Officer	
Con	fers With	
	Section Chiefs.	
	Safety Officer.	
All L	Levels	~
	Document all activities utilizing the ICS 214 – Activity Log.	英
	Receive briefing from Incident Commander.	윤
	Evaluate which government agencies have jurisdiction for the type of incident and inside the planning zone.	PE
	When requested by the Incident Commander takes measures to request a closure order of the EPZ.	Z
	Notify RCMP, local police and/or local authority of the location of roadblocks. The authority contacted will be dependent on whether the roadway is a numbered highway, urban roadway, or rural road. Provide them with sufficient information regarding the incident and allow them to determine if they choose to take control of the roadblock.	PUBLIC INFORMATION OFFICER
	In coordination with the Incident Commander, confirm Regulatory Authority notification according to the applicable requirements has been completed.	VFOR
	Review Section 11.1 Jurisdictional Forms to determine required written notifications. Ensure jurisdictional forms are completed and submitted.	
	Refer to the Notification Requirements for Key Government Agencies and Resources in the Jurisdictional section of this document. (see Section 9.0)	PUB
	Determine which government and regulatory notifications have been completed.	
	Receive representatives from the Regulatory Authority, the local authority and local regional health authority at the Incident Command Post.	
	Coordinate the flow of information to and from the government agencies. or appoint a representative to	
	Update the Incident Commander.	
	Travel to or appoint a representative to the Government Emergency Operations Centre, if necessary.	
Dea	ctivation	
	Ensure any agency communications initiated during the emergency, are revisited and communications completed to inform of call	
•	down.	
	Complete and submit all incident related documentation to the Incident Commander	
	Participate in post-incident debriefing held by Incident Commander.	
	Participate in the Critical Incident Stress Debriefing as required.	



3.11 Planning Section Chief

The Planning Section Chief is responsible for strategic planning, evaluating and processing information for use in the development of the Incident Action Plan. Disseminating information can be in the form of the Incident Action Plan, formal briefings, or status board displays.

Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operational Section Chief. Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of persor assigned to each position. ICS 203 serves as part of the Incident Action Plan. Prepare the Incident Action Plan when requested by the Incident Commander. Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. Assess the current situation and prepare an incident response strategy considering "what if" scenarios. Assemble information and propose alternative strategies. Compile and display incident information on the Status Board. Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Organization Chart. In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. Gather and forward all incident related documentation from the Planning Section to the Incident Commander Participate in the post-incident debriefing held by the Incident Commander.		PLANNING SECTION CHIEF	
□ Incident Command Post. Takes Direction From □ Incident Commander. Confers With □ Section Chiefs. □ Liaison. □ Safety Officer. Gives Direction To □ Planning Section □ Section Chiefs. All Levels □ Document all activities utilizing the ICS 214 – Activity Log. □ Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Action Plan. □ Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Action Plan. □ Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. □ Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions. □ Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operating Section Chief. □ Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of person assigned to each position. ICS 203 serves as part of the Incident Action Plan. □ Prepare the Incident Action Plan when requested by the Incident Commander. □ Distribute Incident Action Plan when requested by the Incident Commander. □ Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. □ Assess the current situation and prepare an incident response strategy considering "what if" scenarios. □ Assemble information and prepare an incident response strategy considering "what if" scenarios. □ Assemble information and prepare an incident response strategy considering "what if" scenarios. □ Assemble information and prepare an incident response strategy considering "what if" scenarios. □ Assemble information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207	ocat	tion	
Takes Direction From Incident Commander. Incident Commander.	<u> </u>	Incident Command Post.	
Confers With Section Chiefs. Liaison. Safety Officer. Gives Direction To Planning Section Section Chiefs. Document all activities utilizing the ICS 214 – Activity Log. Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Commander prior to dissemination as part of the Incident Action Plan. Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operati Section Chief. Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of person assigned to each position. ICS 203 serves as part of the Incident Action Plan. Prepare the Incident Action Plan to the Incident Commander. Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. Assess the current situation and prepare an incident response strategy considering "what if" scenarios. Assemble information and propose alternative strategies. Compile and display incident information on the Status Board. Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Companization Chart. In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required and propose alternative strategies are considered. Develop the ICS 209 – Incident Status Summary as required and provent appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-O			
□ Section Chiefs. □ Liaison. □ Safety Officer. Gives Direction To □ Planning Section □ Section Chiefs. All Levels □ Document all activities utilizing the ICS 214 – Activity Log. □ Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incic Commander prior to dissemination as part of the Incident Action Plan. □ Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. □ Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operati Section Chief. □ Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of person assigned to each position. ICS 203 serves as part of the Incident Action Plan. □ Prepare the Incident Action Plan to the Incident Commander. □ Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. □ Assess the current situation and prepare an incident response strategy considering "what if" scenarios. □ Assemble information and propose alternative strategies. □ Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation □ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. □ Gather and forward all incident related documentation from the Planning Section to the Incident Commander	<u> </u>	Incident Commander.	
□ Liaison. □ Safety Officer. Gives Direction To □ Planning Section □ Section Chiefs. All Levels □ Document all activities utilizing the ICS 214 – Activity Log. □ Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Commander prior to dissemination as part of the Incident Action Plan. □ Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. □ Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operational Section Chief. □ Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of person assigned to each position. ICS 203 serves as part of the Incident Action Plan. □ Prepare the Incident Action Plan to the Incident Commander. □ Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. □ Assemble information and prepare an incident response strategy considering "what if" scenarios. □ Assemble information and propose alternative strategies. □ Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident consider and appoint appropriate personnel to de	Confe	ers With	
□ Safety Officer. Gives Direction To □ □ Planning Section □ Section Chiefs. All Levels □ □ Document all activities utilizing the ICS 214 – Activity Log. □ Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Commander prior to dissemination as part of the Incident Action Plan. □ Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. □ Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operational Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operational Planning Meeting with Commander the Incident Action Plan be assigned to each position. ICS 203 serves as part of the Incident Action Plan. □ Prepare the Incident Action Plan when requested by the Incident Commander. □ Distribute Incident Action Plan when requested by the Incident Commander. □ Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. □ Assess the cur		Section Chiefs.	
Gives Direction To ☐ Planning Section ☐ Section Chiefs. All Levels ☐ Document all activities utilizing the ICS 214 – Activity Log. ☐ Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incic Commander prior to dissemination as part of the Incident Action Plan. ☐ Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. ☐ Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operati Section Chief. ☐ Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of person assigned to each position. ICS 203 serves as part of the Incident Action Plan. ☐ Prepare the Incident Action Plan when requested by the Incident Commander. ☐ Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. ☐ Assess the current situation and prepare an incident response strategy considering "what if" scenarios. ☐ Assemble information and propose alternative strategies. ☐ Compile and display incident information on the Status Board. ☐ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation ☐ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. ☐ Gather and forward all incident related documentation from the Planning Section to the Incident Commander ☐ Participate in the post-incident debriefing held by the Incident Commander.	_	Liaison.	
☐ Planning Section ☐ Section Chiefs. All Levels ☐ Document all activities utilizing the ICS 214 – Activity Log. ☐ Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Commander prior to dissemination as part of the Incident Action Plan. ☐ Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. ☐ Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operation Section Chief. ☐ Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of person assigned to each position. ICS 203 serves as part of the Incident Action Plan. ☐ Prepare the Incident Action Plan when requested by the Incident Commander. ☐ Distribute Incident Action Plan when requested by the Incident Commander. ☐ Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. ☐ Assess the current situation and prepare an incident response strategy considering "what if" scenarios. ☐ Assemble information and propose alternative strategies. ☐ Compile and display incident information on the Status Board. ☐ Usin			
□ Section Chiefs. All Levels □ Document all activities utilizing the ICS 214 – Activity Log. □ Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Commander prior to dissemination as part of the Incident Action Plan. □ Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. □ Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operation Section Chief. □ Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of person assigned to each position. ICS 203 serves as part of the Incident Action Plan. □ Prepare the Incident Action Plan when requested by the Incident Commander. □ Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. □ Assess the current situation and prepare an incident response strategy considering "what if" scenarios. □ Assemble information and propose alternative strategies. □ Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Organization Chart. □ In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required. □ Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation □ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. □ Gather and forward all incident related documentation from the Planning Section to the Incident Commander. □ Participate in t	Gives	s Direction To	
All Levels Document all activities utilizing the ICS 214 – Activity Log. Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Commander prior to dissemination as part of the Incident Action Plan. Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operati Section Chief. Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of persor assigned to each position. ICS 203 serves as part of the Incident Action Plan. Prepare the Incident Action Plan when requested by the Incident Commander. Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. Assess the current situation and prepare an incident response strategy considering "what if" scenarios. Assemble information and prepare an incident response strategy considering "what if" scenarios. Compile and display incident information on the Status Board. Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Comparization Chart. In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. Gather and forward all incident related documentation from the Planning Section to the Incident Commander			
 □ Document all activities utilizing the ICS 214 – Activity Log. □ Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Action Plan. □ Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. □ Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operating Section Chief. □ Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of personassigned to each position. ICS 203 serves as part of the Incident Action Plan. □ Prepare the Incident Action Plan when requested by the Incident Commander. □ Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. □ Assess the current situation and prepare an incident response strategy considering "what if" scenarios. □ Assemble information and propose alternative strategies. □ Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Organization Chart. □ In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as requing Cather and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation □ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. □ Gather and forward all in			
Prepare the ICS 202 – Incident Objectives Form following each Command and General Staff Meeting. Obtain sign-off from Incident Commander prior to dissemination as part of the Incident Action Plan. Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operation Section Chief. Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of persor assigned to each position. ICS 203 serves as part of the Incident Action Plan. Prepare the Incident Action Plan when requested by the Incident Commander. Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. Assess the current situation and prepare an incident response strategy considering "what if" scenarios. Assemble information and propose alternative strategies. Compile and display incident information on the Status Board. Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Granization Chart. In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required to Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation Cather and forward all incident related documentation from the Planning Section to the Incident Commander Participate in the post-incident debriefing held by the Incident Commander.			
Commander prior to dissemination as part of the Incident Action Plan. Prepare for the Planning Meeting, Review ICS 215 – Operational Planning Worksheet developed in the Tactics Meeting. Review 215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operation Section Chief. Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of person assigned to each position. ICS 203 serves as part of the Incident Action Plan. Prepare the Incident Action Plan when requested by the Incident Commander. Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. Assess the current situation and prepare an incident response strategy considering "what if" scenarios. Assemble information and propose alternative strategies. Compile and display incident information on the Status Board. Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Commander in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in the Planning Section to the Incident Commander.			뿝
215A – Incident Action Plan Safety Analysis prepared by the Site Safety Officer. Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operation Section Chief. Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of persor assigned to each position. ICS 203 serves as part of the Incident Action Plan. Prepare the Incident Action Plan when requested by the Incident Commander. Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. Assess the current situation and prepare an incident response strategy considering "what if" scenarios. Assemble information and propose alternative strategies. Compile and display incident information on the Status Board. Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incidence organization Chart. In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. Gather and forward all incident related documentation from the Planning Section to the Incident Commander Participate in the post-incident debriefing held by the Incident Commander.	-	Commander prior to dissemination as part of the Incident Action Plan.	Ξ
Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions Facilitate Planning Meeting with Command and General Staff. Review. Validate the operational plan as proposed by the Operational Section Chief. Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of person assigned to each position. ICS 203 serves as part of the Incident Action Plan. Prepare the Incident Action Plan when requested by the Incident Commander. Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. Assess the current situation and prepare an incident response strategy considering "what if" scenarios. Assemble information and propose alternative strategies. Compile and display incident information on the Status Board. Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Corganization Chart. In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. Gather and forward all incident related documentation from the Planning Section to the Incident Commander Participate in the post-incident debriefing held by the Incident Commander.			NO I
Section Chief. Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of persor assigned to each position. ICS 203 serves as part of the Incident Action Plan. Prepare the Incident Action Plan when requested by the Incident Commander. Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. Assess the current situation and prepare an incident response strategy considering "what if" scenarios. Assemble information and propose alternative strategies. Compile and display incident information on the Status Board. Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Organization Chart. In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required. Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. Gather and forward all incident related documentation from the Planning Section to the Incident Commander Participate in the post-incident debriefing held by the Incident Commander.]	Assess current operations effectiveness and resource efficiency and gather information to support incident management decisions.	ت ن
assigned to each position. ICS 203 serves as part of the Incident Action Plan. Prepare the Incident Action Plan when requested by the Incident Commander. Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. Assess the current situation and prepare an incident response strategy considering "what if" scenarios. Assemble information and propose alternative strategies. Compile and display incident information on the Status Board. Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Organization Chart. In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as requing Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. Gather and forward all incident related documentation from the Planning Section to the Incident Commander Participate in the post-incident debriefing held by the Incident Commander.			PI ANNING SECTION CHIFF
 □ Prepare the Incident Action Plan when requested by the Incident Commander. □ Distribute Incident Action Plan to the Incident Commander for approval prior to disseminating to Command and General Staff. □ Assess the current situation and prepare an incident response strategy considering "what if" scenarios. □ Assemble information and propose alternative strategies. □ Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Organization Chart. □ In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. □ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. □ Gather and forward all incident related documentation from the Planning Section to the Incident Commander □ Participate in the post-incident debriefing held by the Incident Commander. 		Prepare the ICS 203 – Organization Assignment List with information on all positions currently activated, include the names of personnel assigned to each position. ICS 203 serves as part of the Incident Action Plan.	N
□ Assess the current situation and prepare an incident response strategy considering "what if" scenarios. □ Assemble information and propose alternative strategies. □ Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Organization Chart. □ In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation □ □ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. □ Gather and forward all incident related documentation from the Planning Section to the Incident Commander □ Participate in the post-incident debriefing held by the Incident Commander.			
□ Assemble information and propose alternative strategies. □ Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Organization Chart. □ In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as required in a prolonged incident Status Summ			Δ.
 □ Compile and display incident information on the Status Board. □ Using the information contained within the ICS 203 – Organization Assignment List, continuously monitor and update ICS 207 – Incident Organization Chart. □ In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as requi □ Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. □ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. □ Gather and forward all incident related documentation from the Planning Section to the Incident Commander □ Participate in the post-incident debriefing held by the Incident Commander. 			
Using the information contained within the ICS 203 − Organization Assignment List, continuously monitor and update ICS 207 − Incident Organization Chart. In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 − Incident Status Summary as required Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation Develop plan for demobilization. Utilize ICS 221 − Demobilization Check-Out Form. Gather and forward all incident related documentation from the Planning Section to the Incident Commander Participate in the post-incident debriefing held by the Incident Commander.			
Organization Chart. ☐ In a prolonged incident, ensure site response strategies are considered. Develop the ICS 209 – Incident Status Summary as requi ☐ Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. Deactivation ☐ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. ☐ Gather and forward all incident related documentation from the Planning Section to the Incident Commander ☐ Participate in the post-incident debriefing held by the Incident Commander.			
 □ Consider and appoint appropriate personnel to develop a safe, efficient effective re-entry plan for evacuees. □ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. □ Gather and forward all incident related documentation from the Planning Section to the Incident Commander □ Participate in the post-incident debriefing held by the Incident Commander. 	_	Organization Chart.	
Deactivation □ Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. □ Gather and forward all incident related documentation from the Planning Section to the Incident Commander □ Participate in the post-incident debriefing held by the Incident Commander.			
 Develop plan for demobilization. Utilize ICS 221 – Demobilization Check-Out Form. Gather and forward all incident related documentation from the Planning Section to the Incident Commander Participate in the post-incident debriefing held by the Incident Commander. 			
Gather and forward all incident related documentation from the Planning Section to the Incident Commander Participate in the post-incident debriefing held by the Incident Commander.			
Participate in the post-incident debriefing held by the Incident Commander.			
securely filed.	-		
Participate in the Critical Incident Stress Debriefing as required.	ב	Participate in the Critical Incident Stress Debriefing as required.	

Forr	Forms	
	ICS 202 – Incident Objectives	
	ICS 203 – Organization Assignment List	
	ICS 207 – Incident Organization Chart	
	ICS 209 – Incident Status Summary (to be completed following a significant incident)	
	ICS 214 – Activity Log	
	ICS 221 – Demobilization Check-Out	
	ICS 230 – Daily Meeting Schedule	



3.12 Site Logistics Section Chief

The Logistics Section Chief assists the response effort by procuring equipment and support services.

	SITE LOGISTICS SECTION CHIEF	
Loca	ation	
О	Incident Command Post.	
Take	es Direction From	
	Incident Commander.	
Con	fers With	
	Section Chiefs.	
	Liaison Officer	<u>!:.</u>
	Safety Officer.	豈
	Public Information Officer	0
Give	es Direction To	NO
	Site Section Chiefs.	CTI
All L	evels	SE(
	Document all activities utilizing the ICS 214 – Activity Log.	တ္သ
	Develop and implement Incident Action Plan in coordination with the Section Chiefs and Incident Commander.	SITE LOGISTICS SECTION CHIEF
	Procure supplies.	SIS
	Procure transportation services.	0
	Procure equipment.	EI
	Procure manpower.	ЫŢ
	Procure communications systems.	O)
	Procure oil spill contractor/cooperative services.	
	Procure catering services for the responders.	
	In a prolonged incident, identify and obtain accommodations for responders.	
Dea	ctivation	
	Notify all services and suppliers of the stand-down of the incident.	
	Gather and forward all incident related documentation from the Logistics Section to the Incident Commander.	
	Participate in the post-incident debriefing held by the Incident Commander.	
	Participate in the Critical Incident Stress Debriefing as required.	

Fori	Forms	
	ICS 214 – Activity Log	
	ICS 234 – Work Analysis Matrix	

2025 Section 3.0 Page 37 of 38



3.13 Admin/Finance Section Chief

The Admin/Finance Section Chief is responsible for tracking cost, time compensation and claims. This role, when filled by field personnel, is to provide financial administrative support to the EOC.

	ADMIN/FINANCE SECTION CHIEF	
Loca	ation	
	Incident Command Post.	
Take	es Direction From	
	Incident Commander.	
Con	fers With	#
	Section Chiefs.	景
	Liaison.	S
	Safety Officer.	ō
	Public Information Officer	E
All L	_evels	SECTION CHIEF
	Document all activities utilizing the ICS 214 – Activity Log.	兴
	Obtain briefings from the Incident Commander.	ADMIN/FINANCE
	Account for costs.	I ≸
	Track time.	F
	Assist response team with expedient payment for "out of pocket" expenses as a result of the incident for evacuees.	▎▗
	Adhere to procurement procedures. Assist Section Chief with contracts for new support services as required	
	Track compensation and claims.	₹
	Attend planning meetings.	
	Submit reports and expense claims to the EOC Financial Department.	
Dea	ctivation	
	Participate in the post-incident debriefing held by the Incident Commander.	
	Gather and forward all incident related documentation from the Admin/Finance Section for to the Incident Commander	
	Participate in the Critical Incident Stress Debriefing as required.	

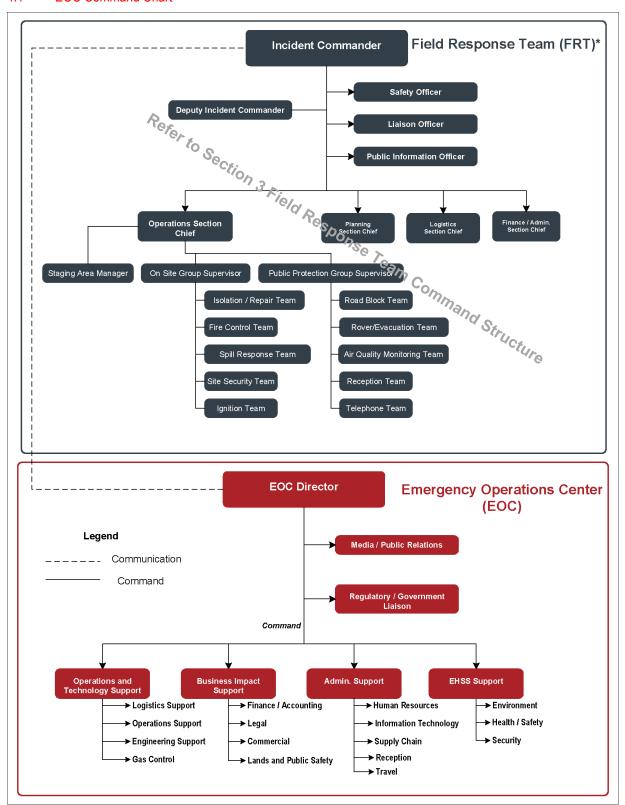
Forn	ns
	ICS 214 – Activity Log
	Evacuee Expense Claim Form

2025 Section 3.0 Page 38 of 38



4.0 EOC INCIDENT COMMAND STRUCTURE - ROLES AND RESPONSIBILITIES

4.1 EOC Command Chart





4.2 EOC Director

The EOC Director is responsible for coordination of response efforts from corporate to support the Field Response Team (FRT) and for efforts to ensure business continuity during the incident. The EOC Director coordinates the actions upon request of the Incident Commander. The EOC Director is the main link between the Field Response Team and the Emergency Support Team and is the main informant for the Emergency Support Team.

Emergency Operations Centre. Confers With Corporate Executive Team. Gives Direction To EOC Leaders Regulatory / Government Liaison Government		EOC DIRECTOR	
Conparte Executive Team. Gives Direction To EOC Leaders. Regulatory / Government Liaison. Communications / Media. All Levels Native the Corporate Executive Team. In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. Evaluate EOC Operations and Technology Support's actions. Make EOC Operations and Technology Support sa actions. Make EOC Operations and Technology Support sa extons. Make EOC Operations and Technology Support aware of external expertise and services that can be provided. Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. Confirm the status of the incident. Estimate the maximum impact and duration of the incident. Determine business continuity issues. Advise on corporate responsibilities. Advise on any internal company policies. Identify agencies (government and regulatory) with jurisdiction related to the incident. In fincident escalates ensure that the Regulatory / Government Liaison Officer role is filled. Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. Approve major capital financial support as required. Advise and support Communications / Media regarding media and public statements. Deactivation Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to	Loca	ation	
Conparte Executive Team. Gives Direction To EOC Leaders. Regulatory / Government Liaison. Communications / Media. All Levels Document all activities utilizing the ICS 214 – Activity Log. Advise the Corporate Executive Team. In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. Evaluate EOC Operations and Technology Support's actions. Make EOC Operations and Technology Support aware of external expertise and services that can be provided. Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. Confirm the status of the incident. Estimate the maximum impact and duration of the incident. Determine business continuity issues. Advise on corporate responsibilities. Advise on any internal company policies. Identify agencies (government and regulatory) with jurisdiction related to the incident. In finicident escalates ensure that the Regulatory / Government Liaison Officer role is filled. Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. Approve major capital financial support as required. Approve major capital financial support as required. Approve major capital financial support as required. Advise and support Communications / Media regarding media and public statements. Deactivation Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to		Emergency Operations Centre.	
Gives Direction To EOC Leaders. Regulatory / Government Liaison. Communications / Media. All Levels Document all activities utilizing the ICS 214 – Activity Log. Advise the Corporate Executive Team. In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. Evaluate EOC Operations and Technology Support sactions. Make EOC Operations and Technology Support aware of external expertise and services that can be provided. Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. Confirm the status of the incident. Estimate the maximum impact and duration of the incident. Determine the impact on the public. Determine business continuity issues. Advise on corporate responsibilities. Advise on any internal company policies. Identify agencies (government and regulatory) with jurisdiction related to the incident. If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. Ensure ongoing internal communication, as appropriate. Approve major capital financial support as required. Approve major capital financial support as required. Approve major capital financial support as required. Advise and support Communications / Media regarding media and public statements. Deactivation Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to	Con		
□ EOC Leaders. □ Regulatory / Government Liaison. □ Communications / Media. All Levels □ Document all activities utilizing the ICS 214 – Activity Log. □ Advise the Corporate Executive Team. □ In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. □ Evaluate EOC Operations and Technology Support's actions. □ Make EOC Operations and Technology Support aware of external expertise and services that can be provided. □ Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. □ Confirm the status of the incident. □ Estimate the maximum impact and duration of the incident. □ Determine the impact on the public. □ Determine the impact on the public. □ Determine business continuity issues. □ Advise on corporate responsibilities. □ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Approve major capital financial support as required. □ Advise and support Communication, as appropriate. Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to		Corporate Executive Team.	
☐ Regulatory / Government Liaison. ☐ Communications / Media. All Levels ☐ ☐ Document all activities utilizing the ICS 214 – Activity Log. ☐ Advise the Corporate Executive Team. ☐ In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. ☐ Evaluate EOC Operations and Technology Support sactions. ☐ Make EOC Operations and Technology Support aware of external expertise and services that can be provided. ☐ Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. ☐ Confirm the status of the incident. ☐ Estimate the maximum impact and duration of the incident. ☐ Determine the impact on the public. ☐ Determine business continuity issues. ☐ Advise on corporate responsibilities. ☐ Advise on any internal company policies. ☐ Identify agencies (government and regulatory) with jurisdiction related to the incident. ☐ If incident escalates ensure that the Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required.	Give	es Direction To	
□ Communications / Media. All Levels □ Document all activities utilizing the ICS 214 – Activity Log. □ Advise the Corporate Executive Team. □ In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. □ Evaluate EOC Operations and Technology Support's actions. □ Make EOC Operations and Technology Support aware of external expertise and services that can be provided. □ Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. □ Confirm the status of the incident. □ Estimate the maximum impact and duration of the incident. □ Determine the impact on the public. □ Determine business continuity issues. □ Advise on corporate responsibilities. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to		EOC Leaders.	
Document all activities utilizing the ICS 214 – Activity Log. Advise the Corporate Executive Team. In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. In consultation with EOC Operations and Technology Support sections. Make EOC Operations and Technology Support aware of external expertise and services that can be provided. Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. Confirm the status of the incident. Estimate the maximum impact and duration of the incident. Determine the impact on the public. Determine the impact on the public. Determine the impact on the public. Advise on corporate responsibilities. Identify agencies (government and regulatory) with jurisdiction related to the incident. If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. Ensure ongoing internal communication, as appropriate. Approve major capital financial support as required. Approve major capital financial support as required. Advise and support Communications / Media regarding media and public statements. Deactivation Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			
 □ Document all activities utilizing the ICS 214 – Activity Log. □ Advise the Corporate Executive Team. □ In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. □ Evaluate EOC Operations and Technology Support actions. □ Make EOC Operations and Technology Support aware of external expertise and services that can be provided. □ Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. □ Confirm the status of the incident. □ Estimate the maximum impact and duration of the incident. □ Determine the impact on the public. □ Determine business continuity issues. □ Advise on corporate responsibilities. □ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Approve major capital financial support as required. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to 		Communications / Media.	
□ Advise the Corporate Executive Team. □ In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. □ Evaluate EOC Operations and Technology Support's actions. □ Make EOC Operations and Technology Support aware of external expertise and services that can be provided. □ Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. □ Confirm the status of the incident. □ Estimate the maximum impact and duration of the incident. □ Determine the impact on the public. □ Determine business continuity issues. □ Advise on corporate responsibilities. □ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Approve major capital financial support as required. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to	All L	evels	
□ In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident. □ Evaluate EOC Operations and Technology Support's actions. □ Make EOC Operations and Technology Support aware of external expertise and services that can be provided. □ Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. □ Confirm the status of the incident. □ Estimate the maximum impact and duration of the incident. □ Determine the impact on the public. □ Determine business continuity issues. □ Advise on corporate responsibilities. □ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. □ Peactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			
□ Evaluate EOC Operations and Technology Support's actions. □ Make EOC Operations and Technology Support aware of external expertise and services that can be provided. □ Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. □ Confirm the status of the incident. □ Estimate the maximum impact and duration of the incident. □ Determine the impact on the public. □ Determine business continuity issues. □ Advise on corporate responsibilities. □ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to		Advise the Corporate Executive Team.	
□ Make EOC Operations and Technology Support aware of external expertise and services that can be provided. □ Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. □ Confirm the status of the incident. □ Estimate the maximum impact and duration of the incident. □ Determine the impact on the public. □ Determine business continuity issues. □ Advise on corporate responsibilities. □ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decisi		In consultation with EOC Operations and Technology Support, develop and implement a comprehensive response plan for the incident.	
Ensure personnel and expertise from Engineering, Human Resources, and Legal are available as required to support the incident response activities. Confirm the status of the incident. Estimate the maximum impact and duration of the incident. Determine the impact on the public. Determine business continuity issues. Advise on corporate responsibilities. Advise on any internal company policies. Identify agencies (government and regulatory) with jurisdiction related to the incident. If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. Ensure ongoing internal communication, as appropriate. Approve major capital financial support as required. Approve major capital financial support as required. Advise and support Communications / Media regarding media and public statements. Deactivation Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			
response activities. Confirm the status of the incident. Estimate the maximum impact and duration of the incident. Determine the impact on the public. Determine business continuity issues. Advise on corporate responsibilities. Advise on any internal company policies. Identify agencies (government and regulatory) with jurisdiction related to the incident. If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. Ensure ongoing internal communication, as appropriate. Approve major capital financial support as required. Advise and support Communications / Media regarding media and public statements. Deactivation Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to		Make EOC Operations and Technology Support aware of external expertise and services that can be provided.	
response activities. Confirm the status of the incident. Estimate the maximum impact and duration of the incident. Determine the impact on the public. Determine business continuity issues. Advise on corporate responsibilities. Advise on any internal company policies. Identify agencies (government and regulatory) with jurisdiction related to the incident. If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. Ensure ongoing internal communication, as appropriate. Approve major capital financial support as required. Advise and support Communications / Media regarding media and public statements. Deactivation Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to	П		
□ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			Ċ
□ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			Ę
□ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			<u>п</u>
□ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			
□ Advise on any internal company policies. □ Identify agencies (government and regulatory) with jurisdiction related to the incident. □ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to	_		۲
☐ Identify agencies (government and regulatory) with jurisdiction related to the incident. ☐ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. ☐ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. ☐ Ensure ongoing internal communication, as appropriate. ☐ Approve major capital financial support as required. ☐ Advise and support Communications / Media regarding media and public statements. Deactivation ☐ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. ☐ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			Ц
□ If incident escalates ensure that the Regulatory / Government Liaison Officer role is filled. □ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to	\vdash		
□ Ensure that Regulatory / Government Liaison Officer is coordinating communication between government agencies and company personnel as required. □ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			
personnel as required. Ensure ongoing internal communication, as appropriate. Approve major capital financial support as required. Advise and support Communications / Media regarding media and public statements. Deactivation Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			
□ Ensure ongoing internal communication, as appropriate. □ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			
□ Approve major capital financial support as required. □ Advise and support Communications / Media regarding media and public statements. Deactivation □ Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. □ Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			
Deactivation Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to			
Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to		Advise and support Communications / Media regarding media and public statements.	
downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to	Dead	ctivation	
downgrade emergency. Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to	П	Ensure the Regulatory / Government Liaison Officer, in coordination with the Regulatory Authority agree that there is consensus to	
	J		
		Ensure the Regulatory / Government Liaison Officer has notified all previously contacted government agencies of the decision to downgrade the emergency.	
☐ Ensure all records and reports are gathered in their original state, for accurate post-incident review.			
☐ Ensure all EOC Team Members are notified.			
□ Participate in the post-incident debriefing held by the Incident Commander.			
Participate in the Critical Incident Stress Debriefing as required.			
Approve final release of incident reports in coordination with the legal department.			

Forms	
	ICS 214 – Activity Log.



4.3 Operations and Technology Support

Operations and Technology Support is the main link between Site Command, the Emergency Operations Centre and is the main informant for the EOC Director. Operations and Technology Support speaks directly with the Incident Commander.

Operations and Technology Support provides operational, public safety, planning and logistics advice and support to assist the Incident Commander with developing an effective field Incident Action Plan (IAP).

	OPERATIONS AND TECHNOLOGY SUPPORT		
Loca	Location		
	Emergency Operations Centre.		
Take	es Direction From		
	EOC Director.		
Con	fers With		
	EOC Leaders.		
$\overline{\Box}$	Regulatory / Government Liaison.		
	Communications/Media.		
Give	es Direction To		
	Incident Commander.	_	
All L	evels	OPERATIONS AND TECHNOLOGY SUPPORT	
	Document all activities utilizing the ICS 214 – Activity Log.	PP	
	Establish method of communications with the Incident Commander.	Ę	
	Schedule regular briefings with the Incident Commander.	>	
	Dedicate a phone line to the Incident Commander.	ဗ္ဗ	
	Confer with the Incident Commander to ascertain the level of emergency.	Ä	
	Activate the EOC.	ĭ	
	Appoint EOC team members.	끙	
	Complete the EOC team and site command team assignment charts.	Щ	
	Schedule regular briefings with the EOC team members and clarify objectives as necessary.		
	Ensure the Status Board and ICS 234 - Work Analysis Matrix are prominently displayed in the EOC.	¥	
	Develop Incident Action Plan in coordination with the EOC team members and Incident Commander.	S	
	Ensure public protection and responder safety issues are being addressed.	Ó	
	Discuss actions with the Incident Commander and provide support until situation is normalized.	F	
	Verify the boundaries of the emergency response planning zones.	2	
	Discuss shelter and/or evacuation plan, as required.	Ä	
	Discuss transient surveys plan, as required.	0	
	Discuss mobile air quality monitoring plan, as required.		
	Discuss the area isolation and roadblock plan, as required.		
	Discuss Fire Hazard Order/Closure Order and NOTAM (Notice to Airmen) if necessary.		
	Verify that adequate containment and recovery measures are initiated.		
	Evaluate which government agencies have jurisdiction inside the emergency response zones.		
	In coordination with the Incident Commander, ensure Regulatory Authority notification according to the applicable requirements.		
	Refer to the Notification Requirements for Key Government Agencies and Resources in the Jurisdictional section of this document.		
	Designate Regulatory / Government Liaison and direct him/her to communicate with Regulatory Authority, environmental agency, health authority, local authority, occupational health and safety authority, and pressure vessel authority.		
	Ensure Regulatory Authority notification according to the applicable requirements.		
	Ensure the applicable reporting form has been completed and submitted to the applicable Regulatory Authority.		



	OPERATIONS AND TECHNOLOGY SUPPORT	
OPERATIONS AND TECHNOLOGY SUPPORT		Ensure confirmation of the level of emergency with Regulatory Authority.
		Notify the applicable Regulatory Authority if the public or media has been contacted.
		Evaluate ignition criteria and communicate with the Incident Commander and applicable Regulatory Authority regarding ignition decision.
		Ensure other required government authorities have been notified (e.g. environmental agency, local health authority, local authority, occupational health and safety authority, and pressure vessel authority).
		Ensure monitoring data is being provided to the appropriate regulatory agencies via the Regulatory/Government Liaison.
		Assess the potential for media interest and the need to notify Communications/Media or Information Officer.
		Direct media communication to Communications/Media or Information Officer.
		Ensure communication with all previously contacted agencies is maintained throughout the incident duration at set frequencies, until the incident is downgraded.
		Assess corporate responsibility with regards to health, environment, community, and business impacts including joint venture partner notification.
		Keep the EOC Director and Corporate Executive Team advised of ongoing events.
		Discuss business continuity concerns with EOC Director.
		Assess the incident situation with regards to both short and long-term implications.
Ö		For prolonged incidents, ensure provisions for relieving and rotating staff on a regular basis.
GΥ	Dea	ctivation
SU		In consultation with the Incident Commander and the applicable Regulatory Authority, downgrade the emergency.
PPO		In consultation with the applicable Regulatory Authority, ensure the Fire Hazard Order/Closure Order and NOTAM are lifted, if necessary.
꼭		Ensure all appropriate agencies previously notified of the emergency are notified of the stand-down of the emergency.
		Ensure all evacuees are notified of the stand-down of the emergency.
		In consultation with Communications/Media, ensure the media is notified of the stand-down of emergency.
		Confirm with the Incident Commander that all evacuees are being assisted in returning to their residences/businesses.
		Ensure follow-up meetings are held with affected residents/landowners.
		Participate in the post-incident debriefing held by the Incident Commander.
		Ensure Critical Incident Stress Debriefing for responders is coordinated by the Human Resources Department.
		Participate in any Critical Incident Stress Debriefing.

Forr	Forms	
	ICS 214 – Activity Log	
	ICS 234 – Work Analysis Matrix	
	Notification Record	
	Status Board	



4.4 Regulatory / Government Liaison

Provides regulatory guidance and advice to the EST as well as to be a liaison between responding government agencies and the company. The Regulatory / Government Liaison is responsible for providing support to the field Liaison Officer

	REGULATORY/GOVERNMENT LIAISON		
Loca	Location		
	Emergency Operations Centre.		
	Government Emergency Operations Centre (Level 2 and 3).		
Take	es Direction From		
	EOC Director.		
Con	fers With	N N	
	EOC Leaders.	<u>8</u>	
	Communications/Media.	₹	
All L	evels	7	
	Document all activities utilizing the ICS 214 – Activity Log.	ä	
	Receive briefing from Operations and Technology Support.	≥	
	Evaluate which government agencies have jurisdiction inside the planning zone and response zones.	~	
	In coordination with the EOC Operations Chief, ensure Regulatory Authority notification according to the applicable requirements.	Š	
	Refer to the Notification Requirements for Key Government Agencies and Resources in the Jurisdictional section of this document.	REGULATORY/GOVERNMENT LIAISON	
	Determine which government and regulatory notifications have been completed.	- ₹	
	Develop a communication strategy with those government agencies who need to be contacted.	ᅙ	
	Address inquiries from and obtain information required by the government agencies.	¥	
	Fill out and submit the forms as provided by the applicable government and/or Regulatory Authority.	<u> </u>	
	Coordinate the flow of communication to and from the government agencies.	8	
	Coordinate the use of expertise and resources available through the government agencies.	~	
	Travel to the Government Emergency Operations Centre, if necessary.		
	Update all previous contacts of change in status.		
Dead	Deactivation		
	In coordination with the Regulatory Authority ensure that there is consensus to downgrade the emergency.		
	Notify all previously contacted government agencies of the decision to downgrade the emergency.		
	Participate in post-incident debriefing held by Incident Commander.		
	Participate in the Critical Incident Stress Debriefing as required.		

Forr	Forms	
	ICS 214 – Activity Log	
	ICS 234 – Work Analysis Matrix	
	Government/Regulatory Reporting Form	
	Status Board	



4.5 Media / Public Relations

Media / Public Relations will develop a communication strategy to ensure information and releases are appropriate, consistent, accurate, and timely. He/she implements the communication plan, providing media information support and serving as the dissemination point for all media releases.

Media / Public Relations ensures the affected public receives ongoing information about emergency status, relief programs, and services.

	MEDIA / PUBLIC RELATIONS		
Loca	Location		
	Emergency Operations Centre.		
Take	es Direction From		
	EOC Director.		
Con	fers With		
	EOC Leaders.		
	Regulatory / Government Liaison.		
	Public Information Officer.		
All L	Levels		
	Document all activities utilizing the ICS 214 – Activity Log.		
	Prepare telephone response for Company receptionists.		
	Contact the Emergency 24-hour number attendant, if applicable and/or the Company Field Office to ensure all media enquiries are directed to the field Information Officer.	SNC	
	Prepare and implement internal communication strategy and plan for employees, contractors, and other personnel.	Ή	
	Monitor Social Media. Prepare Social Media information strategy and implement placement of Public Information as appropriate. Monitor communication issues and incorporate into communications plan.	MEDIA / PUBLIC RELATIONS	
	Ensure communication channels are established and maintained with appropriate stakeholders.	၂	
	Assess media impacts and ensure concerns are clearly identified.	31.	
	Organize news conferences,	Į).	
	Prepare all media responses with the assistance of the EOC Director.	1/1	
	Establish media notification schedules.	AIC	
	Ensure all media releases are approved by the applicable Regulatory Authority prior to release.	፱	
	Organize news conferences, interviews, site tours and other releases as required.	2	
	Review Emergency Response Plan scripts, forms and messages and other information that is to be delivered to public impacted by the emergency. Liaise with the public protection team to ensure appropriate messages are being prepared and delivered at the appropriate time.		
	If required, appoint a Public Information Officer to assist you and the field team. Dispatch personnel to field locations, media information centres and/or Government Emergency Operations Centre, if applicable.		
	If Reception Centre is established, ensure messages, media releases, registration forms and expense claim forms are available to the Reception Team. Consider dispatching an assistant to the Reception Center.		
	Ensure all other external requests are redirected to the appropriate recipient.		
Dea	ctivation		
	If required, continue media and public interaction.		
	Upon direction from the Regulatory/Government Liaison in coordination with the Regulatory Authority, prepare a media statement		
)	regarding the downgrade of the emergency.		
	Participate in post-incident debriefing held by Incident Commander.		
	Participate in the Critical Incident Stress Debriefing as required.		

Forr	Forms	
	ICS 214 – Activity Log	
	ICS 234 – Work Analysis Matrix	
	11.5 – Stakeholder Forms	
	11.6 Media Forms	



4.6 Business Impact Support

The role of business impact support is to identify and work to mitigate all of the negative impacts of the incident on the business as well as to provide business advice and support. Business Impact Support provides support to the company in the areas of finance / accounting, legal, marketing, risk management and insurance.

	BUSINESS IMPACT SUPPORT		
Loca	Location		
	Emergency Operations Centre.		
Take	es Direction From		
	EOC Director.	H	
Con	fers With	OF	
	EOC Leaders.	ЫР	
All L	evels	ns	
	Document all activities utilizing the ICS 214 – Activity Log.	CT	
	Review the Incident Action Plan for business impact implications.	Ϋ́	
	Determine the severity and impact of business interruption to the company; loss of service, supply chain interruptions, catastrophic loss of critical infrastructure, etc.	SIMI	
	Establish which critical services/functions may be required for the response to the emergency.	ES	
	Identify the critical functions that need to be reinstated within 24-hours or are time-dependent; IT recovery, supply chain, procurement, vendors, etc.	BUSINESS IMPACT SUPPORT	
	Aim to maintain the Company's minimum level of service.	В	
Dead	ctivation		
	Implement business/disaster/IT recovery procedures.		
	Acquire the additional resources necessary for restoring business operations.		
	Participate in the post-incident debriefing held by the Incident Commander.		
	Participate in the Critical Incident Stress Debriefing if required.		

Forr	Forms	
	ICS 214 – Activity Log	
	ICS 234 – Work Analysis Matrix	



4.7 Admin Support

Admin Support provides administrative and technical support to the company in the areas of human resources, information technology, travel, security and reception.

	ADMIN SUPPORT		
Loc	ation		
	Emergency Operations Centre.		
Tak	es Direction From		
	EOC Director.	₽	
Con	Confers With		
	EOC Leaders.	В	
All L	Confers With □ EOC Leaders. All Levels □ Document all activities utilizing the ICS 214 – Activity Log. □ Assess the current situation and support the Incident Action Plans as necessary □ Cether analysis of the property o		
	Document all activities utilizing the ICS 214 – Activity Log.	_	
	Assess the current situation and support the Incident Action Plans as necessary		
	Gather specialists (Human Resources, IT, Environmental, Security or Travel) required for the response.	⋖	
	Ensure incident information is documented, current, and disseminated to the supporting team.		
	Utilize the Status Board, ICS 234 – Work Analysis Matrix and Response Organizational Chart.		
Dea	Deactivation		
	Participate in the post-incident debriefing held by the Incident Commander.		
	Participate in the Critical Incident Stress Debriefing as required.		

Forr	Forms	
	ICS 202 – Incident Objectives	
	ICS 203 – Organization Assignment List	
	ICS 207 – Incident Organization Chart	
	ICS 214 – Activity Log	
	ICS 221 – Demobilization Check-Out	
	ICS 234 – Work Analysis Matrix	
	ICS 230 – Daily Meeting Schedule	



4.8 EHSS Support

Health, Safety & Environment Support is responsible for providing Health, Safety & Environmental support to the Field Response Team.

	EHSS SUPPORT	
Loca	ation	
	Emergency Operations Centre.	
Take	es Direction From	
	EOC Director.	RT
Con	fers With	SUPPORT
	EOC Leaders.	JP.
	Incident Commander.	
All L	evels	EHSS
	Document all activities utilizing the ICS 214 – Activity Log.	岀
	Provide guidance to the EOC team and Field Response Team in terms of Health, Safety and Environmental Support and Resources.	
	Develop and implement Incident Action Plan in coordination with the EOC Leaders.	
Dead	ctivation	
	Participate in the post-incident debriefing held by the Incident Commander.	
	Participate in the Critical Incident Stress Debriefing as required.	

Fori	ms
	ICS 214 – Activity Log



5.0 COMMAND CENTRES AND RESPONSE LOCATIONS

To coordinate response efforts, the Company and Government will establish various Command Centres to facilitate required actions. These centres represent the location of specific members of the response team and may be set up temporarily (in a vehicle for example) or long-term (field or head office) depending on the nature of the emergency and the availability of a facility. The following Command Centres would be established as required depending upon the nature and seriousness of the incident.

5.1 On-Site Command Post (OSCP)

The On-Site Command Post is at 'ground zero' and will be located as close to the actual incident site as possible given safety concerns. This location is where the On-Site Group Supervisor would manage actions to control and mitigate the situation and coordinate subsequent remedial activities.

The On-Site Command Post is the focal point for control and containment activities as well as communications to the Incident Command Post. The Incident Command Post and On-Site Command Post can be located at the same place.

5.2 Incident Command Post (ICP)

The Incident Command Post is the location from which the Incident Commander oversees all incident operations. Key field response activities, including public safety actions, are coordinated from this centre. It must have the appropriate equipment and resources, including good communication equipment, to manage the emergency. The ICP will be established near the site of the emergency but outside of the hazard area. Often the Incident Command Post is located in the closest company office, a nearby facility or building. It may be combined with the Regional Emergency Operations Centre.

5.3 Staging Area

The decision to establish a staging area will be made by the Operations Section Chief as directed by the Incident Commander. The staging area is a control point for regulating the flow of equipment and services.

The Staging Area is used for the initial drop off of heavy equipment and large numbers of personnel used in an emergency response. This will greatly aid the efficiency and preparedness of all equipment movement into the EPZ when required. Resources in the Staging Area need to be ready for deployment within five minutes from the incident site, if at all possible. When establishing the Staging Area, ensure that it has adequate entrance and exit routes and is on a paved surface, if possible.

5.4 Reception Centre

Reception Centres are established in order to provide a safe place for people within an established EPZ, including employees, contractors, and site visitors, to evacuate to during an emergency. Local authorities may have predetermined reception centre locations identified within their Municipal Emergency plan. Early contact with the local authority will ensure a coordinated response between the municipality and Company. A company representative will be assigned to travel to the Reception Centre and coordinate activities along with the Local Authority's representative.

Services provided include registration and inquiry, emergency food services, emergency clothing services, emergency lodging services, and personal services. Arrangements for accommodation, reimbursement of daily expenses and temporary care of evacuated property are managed through the centre.

A Reception Centre is usually required if five or more households are evacuated.

2025 Section 5.0 Page 1 of 4



5.5 Helibase

A Helibase is a location where aircraft are maintained and fuelled. If helicopter evacuation is or may be a requirement, the helicopter services may be placed on standby at a Level 1 Emergency.

5.6 Helispot

The Helispot is the temporary location where the helicopter can land to load or unload evacuees, equipment, and supplies. Rover/Evacuation personnel will be located at each Helispot to assist evacuees including non-essential employees, contractors, and site visitors.

5.7 Emergency Operations Centre (EOC)

Significant emergencies impact a business in many ways including reputation loss, regulatory non-compliance, the incurring of legal liabilities, financial loss, etc. During a Hierarchy 2 emergency the EOC Team will assemble and provide support to the affected location.

The EOC is the principal site of response coordination to support the Incident Commander. This is the centre where head office support activities are coordinated, it includes Company representatives with adequate authority, technical, and media relations skills. It is the location where personnel formulate strategies and action plans to manage regional emergency response issues.

The EOC is equipped with the tools, accessibility and space to accommodate the EOC Team and support personnel.



5.7.1 Suggested Equipment and Supplies for the EOC

Off	ice Equipment and Supplies				
0000000000000000	Pens/Pencils Felt-tip markers Dry erase markers Coloured grease pencils Pencil sharpeners Staples/staplers Staple removers Scissors Scotch tape/tape dispenser Notepads Calculator(s) Elastic bands File folders In/Out boxes Map tacks/thumb tacks	0000000000000000	Appropriate batteries for all equipment Appropriate printer cartridges Envelopes of various size Light bulbs Paper for flip charts String Photocopy/printer paper Identification tags/name plates EOC forms Laminated Status Board Laminated ICS 234 – Work Analysis Matrix Clocks Waste baskets/recyclable containers Stamps ("For Action", "Completed", "Approved") Flashlights		
Coi	mmunications Equipment		ŭ		
000000	Telephones Phone/computer cables Power boards Extension cords Television/DVD player Digital cameras/video camera Memory card(s)/disc(s)/tape(s) for cameras	000000	Telephone Conference Unit (Polycom) Computers/laptops with networking capability LCD projector/screen Overhead projector AM/FM radios Fax machine Photocopier		
	rnishings				
00000	Workstation desks/tables Conference table(s) Map stand Chairs Bookshelf(ves)		Filing cabinet(s) Whiteboard(s) Cork boards Flip chart stands		
	□ Bookshelf(ves) □ Coat rack/hangers Reference Materials				
00000	Updated EOC floor plan Checklists (operational guidelines) Updated contact/supplier/media lists Current phone/email lists Emergency Response Plans (with extras) OHS Standards		Contingency plans Local, area, and regional maps Aerial photos Resource inventories CANUTEC guide TDG Regulations		
	re Supplies and Dispensary Paper towels		Facial tissue/Kleenex		
	First aid kit		raciai lissue/Nieeriex		
Foo	od Service Areas				
	Coffee/tea Kettle/tea pot Coffee maker filters/coffee pot Mugs Food preparation/serving equipment Eating utensils/dinner plates Food supplies Water		Pitchers Glasses/paper cups Refrigerator/freezer Stove Dishwashing supplies Storage cabinets Garbage bags		



5.8 Government Command Posts

5.8.1 Regional Emergency Operations Centre (REOC)

If it is taking a considerable amount of time to bring an emergency under control or if the external support requirements are substantial, the appropriate government agency will establish a REOC in the area.

The REOC is a single operations centre that is established in a suitable location to manage the larger aspects of the emergency and it is managed jointly by government and industry staff. The Regulatory Authority encourages the combination of industry and municipal responses into a single REOC if possible.

This centre has two functions:

- 1. To provide a central location for addressing the demands and coordinating the services of various government agencies.
- 2. To provide a centre for public and media interaction.

If a REOC is established, the Company will dispatch a Liaison to the centre to represent the company's view on management, technical, and public affairs issues. The REOC may be combined with a Company command post in order to centralize personnel.

5.8.2 Municipal Emergency Operations Centre (MEOC)

The MEOC is activated by the Local Director of Disaster Services to support the local authority's emergency response. The MEOC can assess the capability of Municipal Government services and other available resources necessary to support the emergency response.

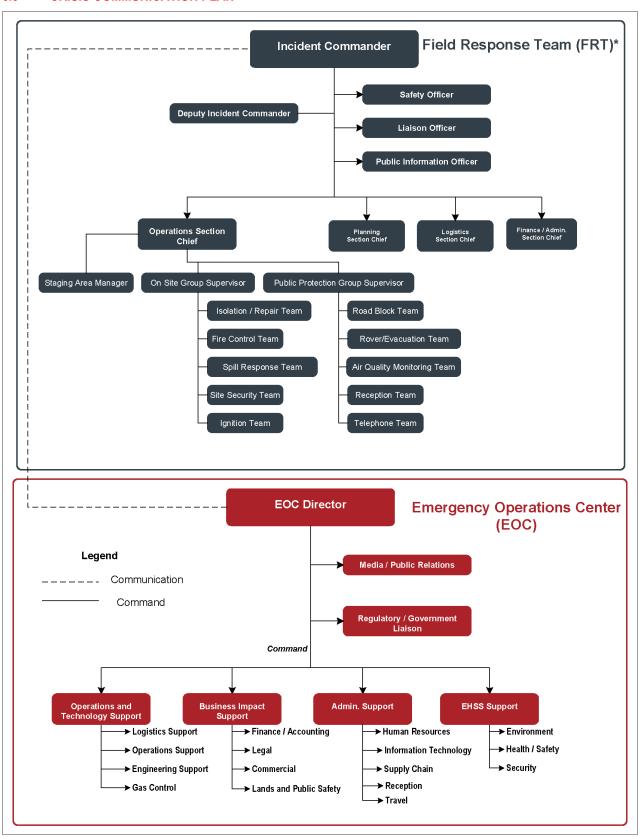
5.8.3 Government Emergency Operations Centre (GEOC)

If the incident affects more than one local authority, provincial/state involvement may necessitate the need for activation of a GEOC.

2025 Section 5.0 Page 4 of 4



6.0 CRISIS COMMUNICATION PLAN





6.1 Purpose of the Crisis Communication Plan

A crisis communication plan provides policies and procedures for the coordination of communication within the organization and between the organization and any applicable outside agencies (e.g. the media, regulatory agencies, customers, suppliers, stakeholders, and the public) in the event of an emergency or controversial issue.

6.2 Crisis Communication Policy

The Company will conduct all aspects of response to a crisis with transparency, timeliness, and honesty and will strive to implement effective communication channels between the Company and all stakeholders in the event of a critical incident.

All communication is designed from the following perspectives:

- Comply with all applicable laws and regulations; making use of industry standards and best practices where appropriate.
- Accept accountability of the operation, of its assets, and the conduct of its employees, contractors, and consultants.
- Communicate openly with all stakeholders.

6.3 Crisis Communication Plan Objectives

The Communication Plan Objectives are as follows:

- To factually assess the situation and determine whether a communication response is warranted.
- To assemble personnel who will make recommendations on appropriate responses.
- To implement immediate action to:
 - o Identify those parties who should be informed about the situation.
 - Communicate facts about the crisis.
 - Minimize rumours.
 - Restore order and/or confidence.

6.4 Crisis Communication Audiences

Important audiences for the Company during an emergency event include employees, contractors, residents, businesses, visitors, stakeholder organizations, all levels of government, media, and the general public who are considered to be at risk. Priority in messaging will be given to those considered at greatest risk.

6.5 Crisis Communication Process

To be effective, emergency response requires timely and efficient communication. The appropriate Company personnel and government/regulatory agencies must be informed of the potential for a serious incident (or the occurrence of a significant event requiring emergency support and response). Notification of a potential incident can occur in several ways: through external stakeholders, through detection by field personnel or through Company reception/24-hour emergency number.

Regardless of whether all information is available at the time, the Information Officer should produce a media statement in a timely manner indicating that the situation is under investigation.

2025 Section 6.0 Page 2 of 22



6.5.1 24-Hour Emergency Number

The Company must establish a 24-hour emergency number for stakeholders to report an operational emergency such as smoke, fire, odours, or spills. This number appears on all facility, well, and pipeline crossing signs. The Company must ensure that incoming calls to the 24-hour emergency number initiate immediate action.

The 24-hour emergency number may be managed by a Call Centre which provides a 24-hour a day, 7 days a week live answering service to notify Company personnel based on a pre-defined call-down list.

During an emergency, the Information Officer must contact the Emergency 24-hour number attendant to ensure all media enquiries are directed appropriately.

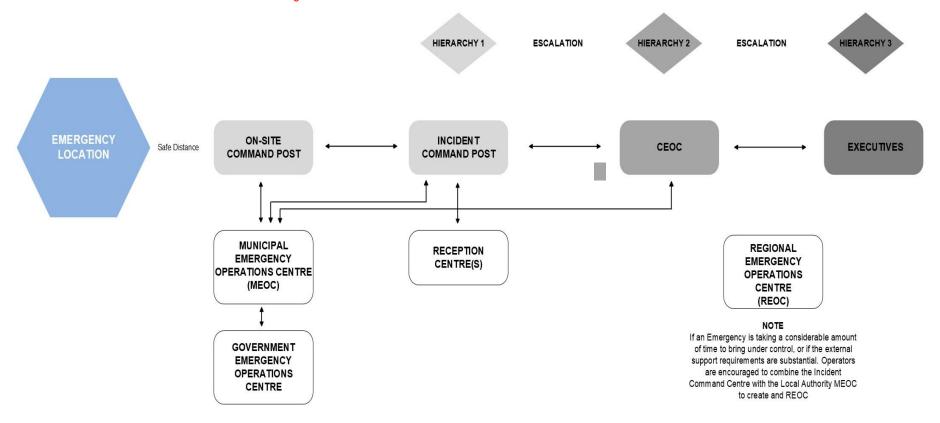
6.5.2 Public Inquiry

Calls to the Company main switchboard are first directed to the EOC where support staff will screen and collect information from all inquiries. EOC support staff will then pass all incoming information requests or issues to the Information Officer. The Information Officer, in conjunction with the EOC Director, will evaluate all incoming requests for action and response and either handle the requests directly or forward the requests onto the Incident Commander or the Corporate Executive Team to handle.

The appropriate notifications must start immediately when declaring an emergency incident. See Communication Flow diagram for notification and reporting flow process.



6.5.3 Command Centre Communication Flow Diagram





6.6 Internal Communication and Command Centres

Effective command, control, and coordination of the incident is dependent on situational awareness gained from fully functioning communication processes and systems. This not only applies between the responders and the On-site Command Post, but also across the entire response effort. The Incident Command Post and the Emergency Operations Centre function as communication hubs and it is important that the relationship and function of each centre is understood.

Internal communications are those between the incident site, company response team members, and other contract emergency resources.

Equipment includes telephones, two-way radios, computer networks, as well as company and response plan contact lists. Outside resources should be procured to assist with the equipment needs. Any site-specific radio and communication infrastructure existing within an area owned either by the Company or through mutual aid should be integrated into the response communication plan. Specific telephone lines may be identified for incoming and outgoing purposes and specific locations may be set up as communication centres with designated media personnel. Roadblock, monitoring, and rover crews also utilize the communication equipment to report conditions and actions, on an ongoing basis, to the Incident Commander or a designate.

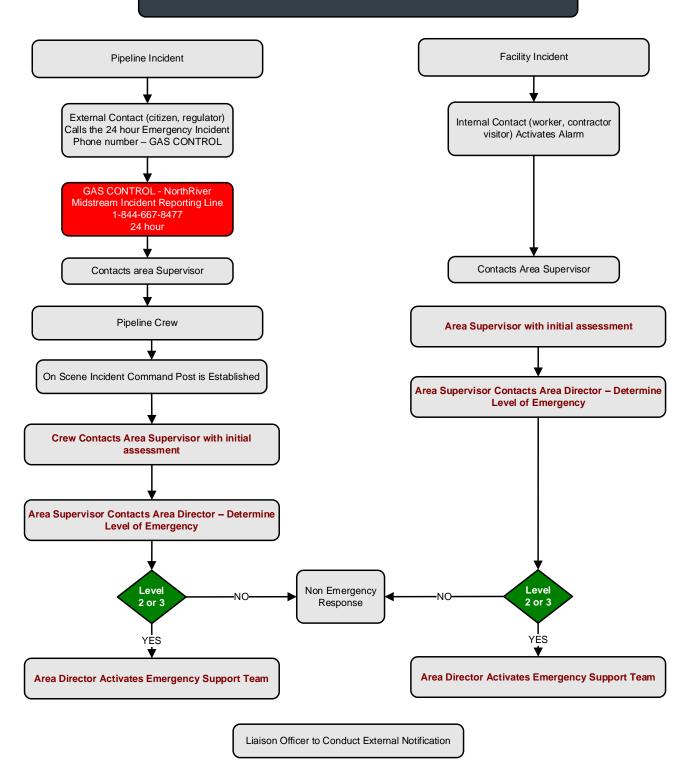
An organized, efficient and effective collection of these resources and procedures are considered an incident communication system. It is this system that captures and relays information and orders so that effective decision-making and action can occur throughout the emergency management structure.

The different types of response centres in the emergency communication system are described below.



6.6.1 Internal Emergency Notification Flowchart

Incident Notification - Internal





6.6.2 Communication at On-site Command Post

The On-site Command Post is the primary emergency response location. It is located a safe distance away from the incident but close enough to facilitate site emergency response operations and communication. If necessary, this could be at a Company Facility or Mutual Aid Operator's Field Office.

6.6.3 Communication at Incident Command Post

The Incident Command Post is typically located at a nearby facility or field office and provides oversight, support, and coordination of regional (vs. site) response activities. Emergency Response activities at the Incident Command Post include the management of impacts to employees, stakeholders and operations.

The Incident Command Post will need to collect relevant tactical information to make a strategic picture of what is happening. Communication of this information from the On-site Command Post/ Incident Command Post is critical as it enables the Incident Commander to communicate a strategic picture to the Emergency Operation Centres.

This accurate strategic picture will assist the EOC to maintain strategic situational awareness of the event allowing senior decision makers to identify and respond appropriately to issues occurring at regional, national, and international levels.

6.6.4 Communication at the Emergency Operations Centre (EOC)

During an emergency which requires a Hierarchy 2 communication level, the Emergency Operations Centre will assemble and provide support to the affected location. This may include the aspect of various support sections (e.g. Legal, Information, Finance, etc.) responding to the Incident Command Post.

6.6.5 Communication with the Executives: President and Board of Directors

During an emergency which requires a Hierarchy 3 communication level, the President and Board of Directors should be notified because significant incidents impact business in many ways including, reputation loss, regulatory compliance, the incurring of legal liabilities, financial loss, etc.

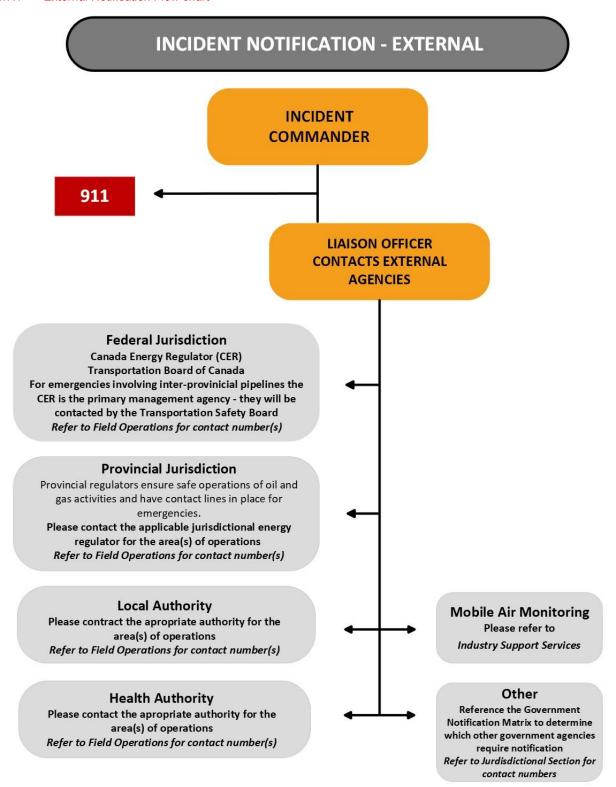
Concurrent with notification to the EOC of the incident, the EOC Director will confirm that the Corporate Executive Team will be the primary conduit for Board notification.

The Corporate Executive Team will notify the Board of the incident and commit to providing updates as the incident evolves.



6.7 External Communication

6.7.1 External Notification Flow chart





6.7.2 Communication with Government/Regulatory

A key component of the plan is to establish and maintain effective two-way communication with government departments and regulatory agencies that have legislated responsibilities for emergency management within their jurisdiction.

6.7.3 Communication with the Public

Public communication can be done in person or by phone. The Company must provide the public with timely emergency information that addresses what actions, if any, are to be taken by the public (for example - shelter in place or evacuate). For extended emergency situations, scheduled information sessions should be conducted to keep the public and affected community updated on the incident (including environmental, health, or safety information).



The following Information must be disseminated to the public at the onset of and during an incident:

To those evacuated or sheltered - at onset	To those evacuated or sheltered - during	To the general public - during
 Type and status of the incident. Location and proximity of the incident to people in the vicinity. Public protection measures to follow, evacuation instructions, and any other emergency response measures to consider. Actions being taken to respond to the situation, including anticipated time period. Contacts for additional information. 	 Description of the products involved and their short-term and long-term effects. Effects the incident may have on people in the vicinity. Areas impacted by the incident. Actions the affected public should take if they experience adverse effects. 	 Type and status of the incident. Location of the incident. Areas impacted by the incident. Description of the products involved. Contacts for additional information. Actions being taken to respond to the situation, including anticipated time period.

6.8 Media Communication

In times of crisis, the public forms their opinions from various media sources. It is critical the company uses all available platforms to relay information to the public.

6.8.1 Media Crisis Communication Policy

Media releases should be coordinated with the applicable Regulatory Authority prior to release to ensure consistency and accuracy of information. The EOC Director will delegate the Information Officer role to interact with the Regulatory Authority and other applicable government agencies.

It is expected that the designated Information Officer will interact with the media in a timely, open and honest manner.

When dealing with members of the press, Company representatives must:

- Demonstrate professionalism at all times.
- Be available for comment and response.
- Be timely and respect the increasingly fast pace of the news cycle.
- Be completely transparent.
- Provide only truthful and accurate information being mindful of the Company's continuous disclosure obligations and restrictions.
- Provide available point of contact for follow-up inquiries.
- Never comment on issues outside of your area of expertise.

Generally, other Company personnel are not permitted to make any verbal or written public statements regarding Company operational matters or events (e.g. accidents, spills, injuries) unless approved by the Information Officer.

Company goals are to:

- Limit public statements to only those that are deemed necessary.
- Make public statements solely from the Company's Head office.
- Present a unified and accurate corporate image to the community.
- Provide correct information to the public.
- To be in compliance with applicable laws, rules and regulations.

If approached by the media for an interview:

- Politely check and record credentials of media, news photographers, and public officials.
- Remember you are always "on-the-record" with the media.

2025 Section 6.0 Page 10 of 22



- Assure the media that a Company representative will address their questions at a later time.
- All media inquiries at the emergency site must be forwarded to the Information Officer who is authorized to supply the media with a brief initial statement.
- Use the following statement as a guideline, never lie or say "no-comment".

If you are asked questions by anyone that is not from NorthRiver, including landowners, Indigenous communities, your family, neighbours, media, etc., do not have a conversation and do not share any information. We want to make sure all facts are correct and follow the proper process before we provide information.
To support information gathering, if you get asked a question, get the person's name and contact details and send it to communications@nrm.ca. You can use the sentence below.
"I am happy to take your name and contact information and will share it with our communications team."
Name of Media Individual:
Media Organization:
Telephone Number:

6.8.2 Media Access to Emergency Site

Company safety procedures apply to everyone on-site. Therefore, to ensure the safety the media will not be allowed on-site unless otherwise agreed to by Senior Management. No objection should be made of the media filming or photographing the event provided they do so in a safe place, off the property.

The following information provides some additional guidelines when dealing with the media and public reactions.

6.8.3 Preliminary Holding Statement

A preliminary holding statement is a brief description of a critical situation. The statement is intended to be the first information that contains the key messages from the Company to the public, prior to any media release. It includes a brief description of the situation, including who was involved, what occurred and any other critical information. It is not meant to replace a media release or a press conference. The preliminary holding statement will be regularly updated by the Information Officer with the most current key points or messages from the company.

The preliminary holding statement should be provided to all telephone operators in the case of a crisis. The statement should be faxed or emailed to the Incident Commander and On-Site Group Supervisor as soon as approved so that the field location can communicate the same messages as Head Office. By having one consistent statement for all callers, the amount of conjecture, personal opinion and speculation is removed from the media contact.

2025 Section 6.0 Page 11 of 22



Where a Preliminary Holding Statement is required by the media, the Statement shall contain:

Nature of Emergency:	General description of what happened. Do not give an opinion of the cause. Do not speculate. Use non-technical language.
Where, When:	Location of the site from the nearest major centre and the time the incident began.
Injuries/Fatalities/ Damages:	No opinions shall be given as to the extent of damage or injuries. State the number of people receiving treatment. No names are to be released until after permission has been granted by the next-of-kin.
Status:	Indicate the nature of the situation: what is being done and by whom.
When to Expect More Information:	The Information Officer, or alternate, will issue further information to the media. Ongoing media attention focused at the emergency site shall be referred to the Information Officer.



Sample Preliminary Holding Statement

Organiza	Media Represetion they work	_		Time (0-2400 hrs):		
				(0 = 100 0).		
At approx	kimately			(Time, a	m/pm) today, NorthRiver Midstrear	n
Inc. expe	rienced a		_ (Fire/Explosion	/Gas Release) at its		_
facility	located	approximately		kilometres	(east/west/north/south)	of
			(Nearest Tow	vn/City).		
		There are	no injuries assoc	ciated with this incide	ent.	
			or			
There a	are injuries ass	ociated with this ir	ncident. However,	the numbers, name	es, and conditions of those injured	
		have	not yet been con	firmed for release.		
The	cause of this in	cident is not yet k	nown, and no est	imate of damage is a	available. However, NorthRiver	
Midstrea	m Inc. is directi	ng emergency pro	ocedures at this ti	me and steps are be	eing taken by NorthRiver Midstrear	n
			Inc. to control the	his incident.		
	For ad	ditional informatio	n about this incide	ent, please call:		
		NorthRive	r Midstream Inc. a	at	·	

6.8.4 General Guidelines

- Be proactive in advising media of the situation to ensure consistent and appropriate communication to the public.
- Establish an agreed upon schedule for updating the media on a timely basis.
- Coordinate media communication with the Government Emergency Operation Centres if established.
- Return media calls promptly and courteously.
- Restrict comments to indisputable facts and brief descriptions of what is being done.
- Keep messages consistent.
- Record names and numbers for media contacts (so you can provide subsequent contact and updates).

2025 Section 6.0 Page 13 of 22



The questions that should be answered are:

- What, where and when did it happen?
- Who was involved? (not providing any names)
- Why did it happen? Do not respond until you have facts otherwise we are investigating the cause.
- What is the status of the situation?
- When will more information be expected?
- Which Government agencies were notified/are on the scene?
- Plus, any other relevant facts that will dispel rumour, speculation and fear.

DO	DO NOT
 Ensure individuals present for any media communication are authorized to be there. Provide factual information quickly. A reporter will be on the next news broadcast regardless. It is in the Company's best interest that he/she has the facts and not just speculation and comments from others. Have one person locally and one at the head office as designated spokespersons (all others will defer questions to them). Keep your commitments. If you say you will check something, ensure you do. If there is an important development, provide an information update immediately. Show yourself as caring and concerned. Reinforce that the Company has active safety, prevention, and response programs. As soon as the Company can confirm, provide: Estimate of when production or flow can be resumed. Estimate of clean-up details (e.g. cost, time frame). After notification of families, names of those injured. Keep your answers brief. Maintain strong eye contact with those asking questions. Wandering or averted eyes will make you seem dishonest. Immediately provide the Information Officer with details of what you have said. Keep a record of all media representatives' organizations and when you talk with them. Politely correct reporters who have carried inaccurate information. 	 Never use the term "no comment." Those two words arouse suspicion. If you don't have the answer, say for example "I don't have that information now, but it is currently being investigated". Do not speculate or guess. Do not place blame on anyone – or accept any blame. Do not prejudge the situation by agreeing with any statement (e.g. you heard the driver was speeding). Do not accuse anyone of negligence. Do not discuss anything "off the record". Do not get flustered by hostile questions: control any anger you may want to return. Do not play favourites with reporters. Be consistent with the information you provide. Do not ask to see or hear a reporter's story to check it before it goes. Do, however, make yourself available to confirm facts. Do not answer hypothetical questions. Comment that the question is hypothetical and that every effort is being made to contain the situation. Do not fall victim to the either/or question. Repeat your facts. Do not repeat the reporter's negative or colourful words (e.g. deadly) even to deny them and do not accept or make comparison to other publicized situations. Do not allow yourself to be positioned in front of a blowout for an interview or photograph but do try to find an interesting backdrop that you control.

2025 Section 6.0 Page 14 of 22



Public reaction to a crisis moves through four stages:

1. Curiosity This is the need (or want) to know stage.

2. Concern People want to know how it affects them, their community or region.

3. Anxiety If the Company does not seem to be informing a concerned public, anxiety sets in. People worry about their health and the environment.

4. Anger/Fear Emotions focus on the perceived threat to people's self-interest. Anger is directed in many directions, especially towards the Company and Government.

6.8.5 Media Release

A media release is a communication directed at members of the news media for the purpose of announcing something ostensibly newsworthy. Typically, they are faxed or e-mailed to assignment editors and journalists at newspapers, magazines, radio stations, television stations or television networks.

The media release starts with the most important information first (who, what, where, when why). This is followed by additional information that may be important with supporting details. It ends with contact information. The objective of each media release is to build or maintain the Company's reputation and public support. The release should emphasize company values, convey empathy to show the public that the Company is concerned and is taking responsibility for the situation. Include only facts that can be confirmed and emphasize resolve of the company to get answers or rectify the problem.

The Media Release contains three core messages that form the basis of all public incident communications.

The Company's primary concern is to ensure the safety of all those affected by the incident, to work closely and cooperatively with all agencies involved and to address any environmental impacts.	A core message of empathy
The Company is putting its full effort into bringing the impact of the incident under control. As more information becomes available it will keep all stakeholders informed.	A core message of commitment and candor
Incident prevention comprises an integral part of the Company's job in all its facilities. However, specific details of how the incident occurred will be subject to a full investigation and it is not appropriate for the Company's to either comment or speculate on this at this time.	A core message of competence

6.8.6 Crisis Media Interview

Crisis interviews are intended to communicate that the Company:

- Has control over the situation.
- Is familiar with the crisis situation and has the knowledge to handle and resolve problem.
- Takes accountability for the situation and attempts to instill trust with the public in handling the crisis.

During crisis media interviews, the messages should be simple, without jargon and conducted in a slow and clear manner with action points repeated. An interviewee should listen with empathy and invoke conviction and compassion through tone of voice.

Before conducting an interview always review, revise, and rehearse. Ensure information is confirmed and factual, that key messages are well prepared, that the interviewee is comfortable in the chosen location for the interview, and that all the background information supports key points.

2025 Section 6.0 Page 15 of 22



When asked a question by a media interviewer, the interviewee should take time to assess whether he or she has the authority to answer the question or the expertise (adequate subject matter knowledge) to answer question. If so, then frame your response with these 3 key points in mind:

- What is the answer avoid extended preamble and get to the point succinctly.
- How did you derive this answer use 2-3 supporting points to substantiate your answer.
- Opportunity select the best key message for the audience to build trust and confidence for company's actions.

Remember the keys to effective crisis media relations are:

- Accuracy of information.
- Speed of release of information.
- Empathy and openness builds trust with stakeholders.

6.8.7 News Conference Guidelines

When you notify the media of news conferences be sure to define what kind of event you are having. News conferences are held to announce something for the first time.

- Do not call unnecessary news conferences, if it's not worth their time, the media will only be angered. If holding a news conference, try to tell media in advance some details that you will be announcing.
- Gauge the size of your crowd carefully when reserving a room; it is better to have too much than
 too little space. Make sure microphones, chairs, lighting, and water are in place at least 30 minutes
 prior to the event.
- Decide format in advance who will introduce speakers, who decides when questions/answer period ends, and other details.
- Decide in advance whether handouts are needed. If speaker is giving a talk for which there is a
 text, you may want to wait and hand out material after the talk, so media will stay and listen.
 However, it's advisable to tell the media you will provide a text of the speech, so they are not
 irritated by having to take unnecessary notes.
- Check to see what else is happening in your organization or the community before scheduling a
 press conference.
- Consider whether you need to let other organizations and agencies know you are having a news conference. You may wish to invite others to attend or participate in your event.
- Decide who will maintain control at the news conference, who will decide where cameras are set up, and who sits where.
- Try to plan the length of the news conference but be flexible.
- Consider the time of the news conference. If you want to make the noon, 6 PM or 11 PM news, you need to allow time for crews to travel and edit tape.
- If you are going to set restrictions on an event such as limited photo access, try to put the restrictions in writing and communicate to the media at least 24-hours in advance.

6.8.8 Reporting

Regular status updates or status reports provided during the emergency response will be the responsibility of the Information Officer in consultation with the EOC Director. Reports should be provided to the agencies at defined intervals or as frequently as updates are required. Reporting intervals may be adjusted as the situation develops. Reporting will continue until the emergency has been declared over and the response effort has stood down.

Specifically, the Communication Plan establishes a guideline for the following core communication expectations:

Communication	Suggested Timeline
Notifications to internal staff and regulators	As per EOC Director
Initial written public holding statement	Within 1 hour of EOC team activation for a Level 2 or 3 crisis
Media release	Within 2 hours of EOC team action for a Level 3 crisis

2025 Section 6.0 Page 16 of 22



Communication	Suggested Timeline
Media appearance (if required) and spokesperson preparation	Within 3 hours of communication team activation for a Level 3 crisis
News conference (if required)	Prior to 4 PM if possible
Formal updates – media release, continuous disclosure obligations	Every 4-6 hours or as situation warrants

6.9 Social Media

The use of social media, (Facebook, Twitter, Reddit, etc.) to communicate with the public can be a very efficient and effective form of communication during an incident. With the release of one small statement the Company can potentially notify a large segment of the population.

Social media provides a form of two-way communication with the public during an emergency situation. Social media provides the ability to directly see how a situation is affecting people and gives the opportunity to respond to them, keeping them informed, preventing panic, and keeping rumors at bay. By following keywords and hashtags, the Company is able to easily monitor what the community is saying about the incident and respond accordingly.

It should be noted that news organizations are increasingly monitoring social media as a way to find news stories; in some cases, finding out about events before a company.

During an emergency in the Information Officer should appoint an assistant to monitor social media. The designated person can employ a web program such as HootSuite to monitor several social media feeds at once.

6.10 Mutual Aid Agreements

A wide range of emergencies may occur that have an impact on neighbouring stakeholders. In this event, multiple parties may want to provide assistance during the emergency.

It must be agreed upon prior to any type of third party response that NorthRiver will remain the primary emergency responder, and that any assistance provided by third parties must be under the supervision of a NorthRiver representative. Furthermore, the party providing mutual aid must comply with all applicable NorthRiver policies and applicable government regulations.

If another Area Operator provides assistance, the principal behind this assistance should remain as follows:

- Companies or individuals providing assistance are to provide the support outside the lease boundary. The focus will be to provide the manpower and support required for roadblock crews, rovers, resident contact, and evacuation co-ordination as required by NorthRiver requesting the assistance.
- Third party responders will report to the Incident Commander or other coordinating position in the area.
- Individuals providing assistance retain the right to withdraw the assistance should his/her personal safety be jeopardized.

6.11 Emergency Answering Procedures

When answering telephone calls listen to the person on the other end of the line carefully. You need to determine whether this is an emergency situation or not. Try to get the following information, repeat it back for clarification.

- Record the time of day.
- Make sure you ask and log the following information:
 - The person's name.
 - The person's phone number.
 - The exact location of the person calling.
 - Directions to the caller's home/incident site.



- The exact location of the potential emergency.
- o The extent of injuries or damage.
- Wind direction.
- Nature of emergency.
- Please tell the caller to call _____ (collect) if their situation changes or gets worse.
- Call the Company representative for that area and relay all the information. Fax, or scan and email, a copy of the recorded information to the responder.

Please remember how important this information is as you will have to relay it to a Company representative.

If the person calling is agitated, try to keep them on the line long enough to get this information. Let them know a Company representative will be dispatched to check out the incident and will contact them with further information.

2025 Section 6.0 Page 18 of 22



6.11.1 General Evacuation Script

Ensure you are speaking with the correct person.			
Record answers to your questions on a separate sheet of paper. Speak slowly, calmly and clearly.			
opoun clowly, calling and clourly.			
Mr./Mrs, this is of NorthRiver Midstream Inc. calling.			
I am phoning you because we are experiencing some problems at the nearby property.			
This situation does not pose any immediate threat, but we want you to be aware of it in case the situation gets worse.			
If it does, we will call back and ask you to go to the reception centre. Would you need any help			
in getting to the?			
I will be calling back, in any event, to give you an update.			
If you have any questions, please phone me, collect, at			
If at all possible, please avoid the use of your telephone, so we can call you again quickly with further information.			
Thank you.			

Immediately report, to the Telephone Team Leader, the names of all residents not contacted.



6.11.2 Shelter in Place Script

Telephone message for Residences/Businesses inside the EPZ where it is initially deemed unsafe to evacuate.

Ensure you are speaking with the correct person.			
Record answers to your questions on a separate sheet of paper.			
Speak slowly, calmly and clearly.			
Mr./Ms, this is from NorthRiver Midstream Inc. calling. We are			
experiencing a gas leak, which has created a vapour cloud (plume) that may be toxic or cause a serious fire and			
explosion near your home. NorthRiver Midstream Inc. is currently responding to the emergency. For your safety it			
is essential that you and your family/associates, remain sheltered indoors, preferably at the upper levels in your			
house until we can evacuate you safely or until the situation is under control and this serious hazard no longer			
exists.			
Please take the following actions immediately:			
Gather everyone in the house and close all windows and doors.			
Extinguish all potential sources of ignition, including open flames.			
3. Do not smoke.			
Turn off the electrical power at your switch box.			
5. If possible, plug any fresh air intakes or vents to your home, or furnace.			
6. Move to the upper levels of your house.			
7. Use a portable radio and stay tuned to a local station for public information.			
Do not leave your house or attempt to start any vehicle until NorthRiver Midstream Inc. advises you that the area is safe.			
Do you understand what I have just told you?			
A Company representative or the local police will come to your house as soon as the fire and explosion hazard no			
longer exists.			
If at all possible, please avoid the use of your telephone, so we can call you again quickly with further information.			
If you have urgent questions, please call NorthRiver Midstream Inc. at*			
The Telephone Team Leader will designate the phone number at the time of the incident.			
Thank You			



6.11.3 Urgent Evacuation Script

Ensure you are speaking with the correct person.			
Record answers to your questions on a separate sheet of paper.			
Speak slowly, calmly and clearly.			
Mr./Ms, this is of NorthRiver Midstream Inc. calling. I want to tell you			
about a/the serious we are experiencing at our location.			
The wind is carrying the escaping gas to the north/south/east/west.			
YOU ARE IN NO IMMEDIATE DANGER.			
However, as a safety precaution, we want you to leave your premises and go right away to the reception centre			
located at			
How many people are currently at your home?			
Are there any medical considerations or other special concerns that could affect your safe evacuation?			
Do you have transportation? If not, please stay indoors and close all windows and doors. We will send one of our			
drivers and vehicles to get you right away.			
If you have transportation, please take the north/south/east/west route, which will take you safely out of the			
endangered area. You can then travel by to get to the reception centre.			
Read the following paragraph only during school hours:			
We have contacted the schools and have arranged to hold students at the school.			
You may pick them up there or would you like to have us take them to the reception centre?			
What are your children's names and which school are they at?			
It is very important for us to know where you are and where you can be contacted both during and after the			
evacuation. Please report to the reception centre to confirm your accommodations and other support you may need.			
Any concerns you have regarding livestock, pets, or property will be addressed by our representatives at the			
reception centre.			
Please try not to use your telephone as it may tie up the lines and prevent us from calling other residents.			
Immediately report, to the Telephone Team Leader, the names of all residents not contacted.			

2025 Section 6.0 Page 21 of 22



6.11.4 Notification Script

Ensure you are speaking with the correct person. Speak slowly, calmly and clearly.				
Mr./Msan important message.	_, this is	of NorthRiver Midstream Inc. calling. I am calling with		
	•	ar your location, which does not affect your safety; REPEAT, does s time; NorthRiver Midstream Inc. is notifying you for informational		
Repeat: You are in no danger at this time; we are notifying you for informational purposes only. If you would like to voluntarily evacuate, please go to the Reception Centre located at the				
For further information, pleas	e contact NorthRiver	r Midstream Inc.'s 24-hour emergency number at 1-844-667-8477.		



7.0 RESPONSE ACTION PLANS

7.1 Purpose

The following examples of emergency response actions have been developed to provide a guide for response personnel. They should be reviewed and (if applicable) implemented as part of a specific emergency response.

The Site Command and Emergency Operations Command staff may follow these guidelines to protect worker and public safety.

7.2 Incident Site Worker Protection

To ensure that workers take the appropriate actions in the event of an emergency they should be properly trained and familiar with the Company emergency response strategy. This includes the following:

Actions:

- Ensure familiarity with egress routes and the muster point.
- Know where the safety equipment is located (fire extinguishers, first aid kits, gas monitoring equipment, and personal protective equipment).
- Understand how to initiate a site evacuation by sounding an alarm.
- If required, assist with a head count at the muster point and identify any missing personnel.
- Provide medical aid to an injured worker.
- Ensure that there is an accounting system in place for on-site personnel.

7.3 Personal Protective Equipment (PPE)

All responders should be properly equipped with PPE in their role as first responders at a Company site. In prolonged emergency response situations, a critical role of the Site Logistics Section Chief is to ensure that adequate quantities of all types of equipment and clothing are available for response personnel including essential spare parts (e.g. additional air bottles, bunker gear etc.). Local suppliers of safety equipment should be pre-identified.

Respiratory Protection

Supplied-Air Breathing Apparatus (SABA) supplies air from air carts rather than breathing ambient air. The most common type of supplied-air apparatus is the Self-Contained Breathing Apparatus (SCBA) for example, Scott Air Packs, which supplies air from tanks carried on the responder's back with a full face-piece. SABA and SCBA represent the highest level of respiratory protection available.

The following general guidelines can assist in the selection of proper respiratory protection for responders:

- SCBA should be used by initial responders (i.e. the first responders to enter the planning zone or
 immediate area of the spill), especially if the levels of concentration are unknown but suspected to
 be high, or if there is the possibility of oxygen deficiency (e.g., confined spaces). One of the key
 roles of the initial responders will be to take accurate vapour concentration measurements to
 determine the actual level of risk to follow-up responders.
- Air-purifying (e.g. organic cartridge) respirators can be used when the levels of vapour
 concentration are confirmed by gas testing to be safely below the level for the chemical involved,
 and the situation has stabilized (e.g., vapours are starting to be dispersed by wind, or have been
 suppressed using foam).

Note: All responders should be trained in the proper use of respiratory protection equipment. Final selection of respirators should always be based on accurate, ongoing measurements of vapour concentration levels at and around the spill site (especially downwind).

2025 Section 7.0 Page 1 of 65



Protective Clothing

Recommended protective clothing requirements are outlined in Safety Data Sheets (SDS) which are published for all products.

Chemicals can pass through protective clothing through three processes:

- **Penetration** occurs when the liquid or vapour passes through seams or small openings in the clothing.
- **Degradation** is the deterioration or breakdown of the clothing material caused by the action of the chemical.
- Permeation is the process by which molecules of liquid or gas move through clothing material.
 Permeation is regarded as the most useful measure of the level of protection afforded by different clothing materials.

7.4 Protection Levels

There are four general levels of responder protection, which are recognized in both the U.S. and Canada. These are outlined in the table below.

- For solvents and Styrene, initial responders will probably require Level B protection until vapour concentration levels have been confirmed. Follow-up responders should have Level C protection.
- For certain specialty chemicals like Phenol, Level A protection may be required depending on the nature and location of the incident.

7.4.1 Levels of Responder Protection for Spill Response

Protection Level	Situation	Protective Equipment
Α	Entry into unknown or high levels of skin- permeating chemicals.	SCBA and totally encapsulated or gas-tight suit.
В	High concentrations – no skin-permeating chemicals present.	SCBA and chemical resistant clothing and gloves, boots.
С	Known levels of non-permeating chemicals.	Air-purifying respirator, liquid-repellent clothing, gloves, boots, safety goggles/glasses, and hard hat.
D	Chemicals well below danger levels.	Coveralls, gloves, boots, safety goggles or glasses, hard hat.



7.5 Preparing a Health and Safety Plan

The Health and Safety Plan for a hazardous material spill highlights the critical information about the product, physical location of the spill and other incident-specific conditions required by responders to respond safely to the incident, as well as appropriate safety rules and precautions that will be enforced at the scene.

In most circumstances, the Health and Safety Plan for a specific incident should be prepared by a Site Safety Officer at the scene who is in a position to conduct a thorough, accurate hazard assessment.

The Health and Safety Plan should be concise, and written in clear, non-technical language to ensure understanding by responders.

The Health and Safety Plan outlines the key hazards associated with the incident, and the safety procedures and precautions that are to be enforced during the response. As the response progresses, the Health and Safety Plan should be updated on a regular basis to reflect changing conditions at or near the scene of the incident.

The Incident Commander is responsible for reviewing the Health and Safety Plan. The Site Operations Section Chief and On-Site Group Supervisor are responsible for implementing and enforcing the safety requirements of the plan throughout the response.

7.6 Health and Safety Plan

Product Specific Information

Product Hazards:

- Poisonous or toxic.
- Flammability.
- Corrosive.

Health Hazards and Risks:

- By ingestion.
- By direct contact, skin.
- By inhalation.

Risk of Fire or Explosion:

- Flash Point.
- Lower Explosive Limit (LEL).
- Upper Explosive Limit (UEL).

Exposure Limits (ACGIH – if other specify):

- TLV-TWA.
- TLV-STEL.
- TLV-C.

Critical Behaviours and Properties (as required by the situation):

- Vapours heavier or lighter than air?
- Sinks, floats, dissolves or evaporates in water?

Other:

Responder Safety and Protection

Responder Qualifications/Training Requirements:

Recommended Level of Personal Protective Equipment (PPE):

- Level A (specify equipment).
- Level B (specify equipment).
- Level C (specify equipment).



Site-Specific Information

Drawing, map or sketch of the incident site showing:

- Key topographical features (e.g., buildings, natural features).
- Initial Isolation Zone.
- Protective Action Zone.
- Potential Downwind Evacuation Zone.
- Wind Direction.
- Real and potential vapour monitoring points.
- Security Access Points (if applicable).
- First Aid stations (if applicable).
- Command Centre and Staging Areas (if applicable).

Note key features of the location that might affect the safety of responders.

Describe proximity to:

- Populated areas (e.g. residential or commercial).
- Bodies of water (e.g. lakes, rivers, streams, ocean).
- Environmentally sensitive areas.

7.7 Public Safety and Protection

In most foreseeable situations, the responsibility for public safety and protection following an emergency incident will be the responsibility of the local authorities including one or more of the following:

- Police.
- Fire Department.
- Municipal Emergency Planners and Responders.
- Public Health officials.

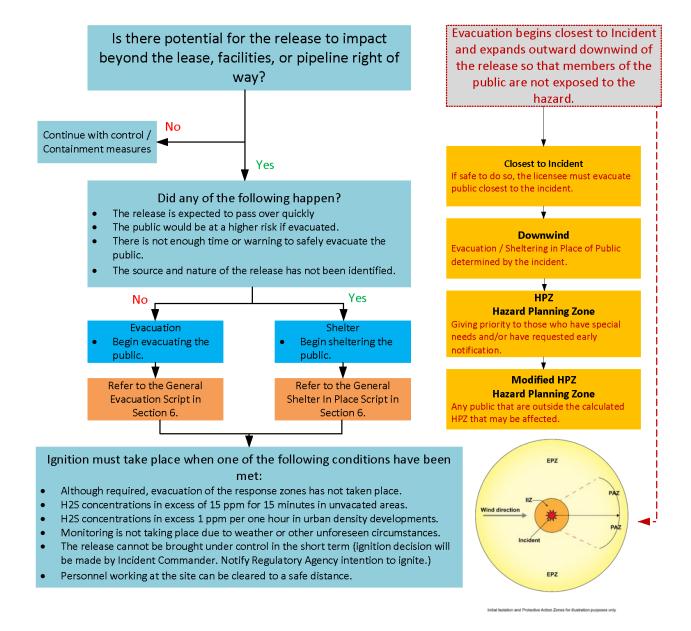
Actions taken may range from nothing if no public risk is perceived, to notification or public warnings, public health alerts, and full or partial evacuation of certain areas around the incident site.

Company personnel will support this process by providing whatever information is required about Company emissions and their related properties and hazards to enable the authorities to reach the most appropriate decision given the circumstances at the time. Such information may include:

- Physical and chemical properties.
- Toxicological properties and risks.
- Critical physical parameters such as flash point, explosive limits, exposure limits, etc.
- Physical properties and behaviour following a spill on land, water, or in vapour form.



7.7.1 Public Notification Flowchart





7.8 Air Quality Monitoring

At a Level 1 Emergency, Mobile Air Quality Monitoring equipment and qualified operating personnel will be dispatched to the Emergency Planning Zone and placed downwind to gather the ambient air quality data required to support public safety actions.

Air Quality Monitoring equipment will be used to:

- Track the plume.
- Determine if ignition criteria are met.
- Determine whether evacuation and/or sheltering criteria have been met, particularly beyond the EPZ.
- Assist in determining when the emergency can be downgraded.
- Determine roadblock locations.
- Determine concentrations in areas being evacuated to ensure that evacuation is safe.

Downwind Mobile Air Quality Monitoring Requirements				
Level 1 Emergency	Level 2 Emergency	Level 3 Emergency		
Deploy unit(s) to area of release and commence mobile air quality monitoring.	Continue mobile air quality monitoring.	Continue mobile air quality monitoring.		
	Request additional air quality monitoring unit(s) if required.	Request additional air quality monitoring unit(s) if required.		

7.9 Determining the Response Zone Using Monitoring Equipment

Response personnel required to determine the extent of the response zones with handheld monitoring equipment must take the following precautions to protect their safety:

- Use the buddy system.
- Equip each responder with reliable H₂S detection and respiratory protective equipment.
- Establish and maintain communication with the Incident Command Post.
- If walking a pipeline right-of-way, walk a safe distance apart staying within visual and audible contact. As the lead responder monitors for H₂S, the backup responder will maintain communication and be prepared to rescue.

Detection

- Portable 3 or 4-head gas monitor.
- Mobile Air Monitor Units.

Record all information

- Concentrations in ppm.
- Location and time of readings.
- Wind speed and direction.

Communication and Documentation

- Report all information to Public Protection Group Supervisor or Site Operations Section Chief.
- Notify Roadblock Personnel and Response Teams of changes.

7.9.1 Sour Gas Release from a Manned Operation

For critical sour wells, if the EPZ includes a portion of an urban density development or urban centre, there must be a minimum of two mobile air quality monitors: one to monitor the boundary of the urban density development or urban centre and the other to track the plume. The licensee must also:

• Ensure that one unit is in the area during drilling and/or completions, testing, and workover operations in potentially critical sour zones.



- Ensure that the other unit is dispatched if it is evident that well control measures are deteriorating, and that sour gas release is likely to occur.
- Prior to conducting operations in the sour zone, determine where the monitoring equipment is located and what the estimated travel time is to the well site.

For critical sour wells whose EPZ does not include a portion of an urban density development or urban centre and for all noncritical sour wells, the licensee must:

- Dispatch mobile air quality monitoring unit(s) when it is evident that well control measures are deteriorating and that a sour gas release is likely to occur.
- Prior to conducting operations in the sour zone, determine where the monitoring equipment should be located and what the estimated travel time is to the well site.

Air quality monitoring occurs downwind, with priority being directed to the nearest un-evacuated residence or area where people may be present.

The licensee is expected to provide monitored H₂S and SO₂ information on a regular basis throughout a sour gas emergency to the environmental agency, the applicable Regulatory Authority, local heath authority, and other local authorities.

7.9.2 Sour Gas Release from an Unmanned Operation

If the licensee is notified of a release by an alarm or by a reported odour, the source of the release must be investigated, and air quality monitoring units sent out upon confirmation of the release location.

7.10 Sour Gas Release

7.10.1 Sour Gas Release Site Safety

- Communicate with all workers the potential presence of H₂S, SO₂ and LEL levels.
- Immediately initiate atmospheric monitoring of H₂S, SO₂ and LEL levels.
- Designate a safe muster location based on the extent of the Sour Gas release.
- Initial immediate evacuation of all non-essential personnel.
- Identify areas of the site with confirmed or potential H₂S, SO₂ and LEL levels.
- Complete a site roll call to account for the safe location of all personnel that were on site prior to the event occurrence.
- Identify any unaccounted-for personnel.
- Attempt to remove or control all ignition sources, where ignition would threaten safety of workers.
- Perform search and rescue for site personnel unaccounted for or overcome by H₂S and SO₂.
- Continue to provide atmospheric monitoring of H₂S, SO₂ and LEL levels to ensure the safety of the Muster Location and emergency responder staging position.

7.10.2 Safety of Response Operations

- Ensure personnel that assist with release control operate only within their specific:
 - Levels of training.
 - Capability.
 - Experience.
- Personnel remaining in proximity to H₂S and SO₂ exposures shall be provided with and shall wear the appropriate PPE and SCBA appropriate to the exposure hazard.
- Ensure that any personnel utilizing SCBA have been properly trained and fitted.
- Monitor and provide control of the operating time of site personnel working in SCBA.
- Establish a decontamination station prior to assigning personnel to enter areas in proximity to H₂S and SO₂, for the safe and timely decontamination of any exposed personnel.

2025 Section 7.0 Page 7 of 65



7.10.3 Action Plan Sour Gas Release

- Attempt to stop the release of Sour Gas, when safe to do so.
- Notify local emergency response agencies.
- Notify potentially exposed residential or public areas.
- Determine and implement public protection actions.
- Maintain air monitoring for H₂S and SO₂.
- Activate the Site Command and EOC Command for support.
- Assist emergency response agencies in organizing area evacuations and access restrictions.

Request Emergency Response Agencies

- Call 911.
 - Request Fire Department, Emergency Medical Responders, and Police.
 - o In the event of potential exposure to a sour gas release off-site
- Reguest that the local Emergency Management Representative and local police agency respond.
- Maintain air monitoring for levels of H₂S and SO₂.
- Designate a safe staging position for responding resources.

Brief Emergency Responders

- Provide emergency responders with an SDS for H₂S and SO₂.
- Brief emergency responders on:
 - Event timeline.
 - o Nature of the release; dynamic static.
 - O Hazards of the release; flammable, corrosive, toxic, asphyxia.
 - Status of personnel accountability; search and rescue profile.
 - Other uncontrolled facility hazards.
 - Status of the release control operation.
 - Status of other operating personnel within the facility.
- Identify the number of injured/exposed people due to any inhalation hazard.
- Identify the uncontrolled sources of ignition.
- Identify any confined spaces.
- Identify any low-lying areas where H₂S and SO₂ may pool.

7.11 Sweet Gas (Hydrocarbon) Release

The effectiveness of the following guidelines depends on the judgment exercised by all personnel. To extinguish hydrocarbon fires and prevent further explosions, it is necessary to do at least one of the following:

- 1. **Remove fuel** by isolating the section of equipment on fire and pumping out or depressurizing the flammable material.
- 2. **Remove oxygen** by the use of steam, chemicals, foam, dry powder, or CO₂ extinguishers. If the fire is small, the flames can be smothered with a fire blanket, new tarpaulin, or sand.
- 3. **Cool fuel** so that it no longer produces vapors using water where possible (as a fog) to extinguish fires or as a coolant for equipment, tanks, support columns, etc. or use to provide a protective shield while the fire is being extinguished by foam, chemicals, or power extinguishers.

Response Actions:

- Understand the type of product and its immediate hazards.
- Establish an evacuation route and muster point for workers at the site.
- Shut in all known fuel sources. Do not extinguish a leaking gas flame unless the leak can be stopped.
- Shut off high voltage power supplies to equipment in fire-affected area.
- Shut off fuel to heaters near to or downwind of the fire.

2025 Section 7.0 Page 8 of 65



- Observe surrounding area for other possible re-ignition sources and if safe to do so take appropriate steps to eliminate these hazards.
- Dissipate static electrical charges on bodies of all personnel in area. Grounding may be accomplished by holding onto a metal structure for ten seconds with bare hands.
- Approach the site from an upwind or crosswind direction.
- Ensure an appropriate on-site and off-site air monitoring strategy is employed.
- Monitor the area for LEL.
- Monitor local weather conditions. Weather conditions such as temperature inversions, fog and wind may affect plume dispersions.
- Do not use water jet. For a small fire, use dry chemical, CO₂, water spray, or foam. For a large fire, use water spray, fog, or foam. Beware of electrical hazards.
- Move containing vessels from the fire area if this can be done without risk.
- Cool containing vessels with flooding quantities of water until long after fire is out.
- Keep unauthorized personnel away.

7.11.1 Flammability Limits

Monitored Flammability Limits (% of LFL)	Comments and Typical Actions
10% of the LFL (LFL/10)	This concentration represents a level at which industry response personnel should leave the area or don fire protective clothing if continuing to work in this environment or if approaching the source of a release.
50% of the LFL (LFL/2)	A concentration level at which ignition and flame propagation through a dispersing plume may be possible due to the non-homogenous nature of dispersion in the atmosphere (i.e., concentration fluctuations). A meteorologically weighted distance to this criterion (as calculated using quantitative hazard analysis methods) is often used as the basis for establishing emergency planning zones for flammable substances. If measured by air monitoring, this concentration represents a level at which public protection measures such as removal of ignition sources, shelter-in-place or evacuation may be warranted.
100% of the LFL (LFL)	A concentration level at which (in the presence of an ignition source) ignition and flame propagation through the dispersing plume is highly probable. Extreme caution should be exercised, and emergency response personnel should withdraw from the area.

Adapted from Best Management Practices, Emergency Air Monitoring, Canadian Association of Petroleum Producers, March 2014

7.12 Hydrocarbon Exposure

Exposure to flame (delayed ignition of a hydrocarbon gas release). Direct exposure to flame occurs when ignition of a flammable gas cloud in the environment is delayed. If ignited, a flame front will move from the point of ignition, through the gas, to the source.

For planning purposes, the flammable region of the plume is assessed by estimating the concentration of fuel in air as the gas is transported and dispersed from the release site. The lower flammable limit (LFL) is the lowest concentration at which the fuel will support combustion in the presence of an ignition source. While hydrocarbon gases cannot burn below the LFL, the distance to one half of the LFL (LFL/2) is used as a conservative basis for establishing the boundaries of the flammable region. For emergency response purposes, responders will use monitors to determine where a flammable gas exists.

Direct exposure to flame can result in third degree burns or death. If you detect a hydrocarbon release, extinguish and reduce all ignition sources and, if possible, move away from the area on foot in a crosswind direction away from the source. If you cannot leave the area on foot or are uncertain about the source of a release or the wind direction, please shelter indoors.



7.12.1 Exposure to Heat Radiation (ignited hydrocarbon release)

Exposure to thermal radiation can result from a:

- Pool fire or refers to the burning of liquid hydrocarbon at the surface of a liquid hydrocarbon pool (e.g. burning of an oil pool).

 Jet fire: refers to the burning of liquid or gas at the point of the release into the atmosphere (e.g.
- the flame on the tip of a butane torch).

A number of criteria are used to evaluate the effects to people of heat exposure. These include:

- Thermal Radiation: a measure of the instantaneous level of heat radiation received at a location near a release.
- Thermal Load: a measure of the cumulative heat received at a location near a release and is a better measure of the overall impact to people.

These effects of heat exposure are summarized for these criteria in the tables below.

Thermal Radiation

Radiation Intensity (kW/m²)	Damage to Equipment	Exposure to People				
4	Sufficient to cause pain to personnel if unable to reach codegree burns); 0% lethality.	over within 20 seconds; blistering of the skin (second				
12.5	Minimum energy required for piloted ignition of wood; melting of plastic tubing.	1% lethality in 1 minute. First-degree burns in 10 seconds.				
25	Minimum energy required to ignite wood at indefinitely long exposures (non-piloted).	1% lethality in 30 seconds. Significant injury in 10 seconds.				
37.5	Sufficient to cause damage to process equipment.	100% lethality in 1 minute. 1 % lethality in 10 seconds.				

World Bank (1985) in Guidelines for Chemical Process Quantitative Risk Analysis, Center for Chemical Process Safety of the American Institute of Chemical Engineers, 1989.

Thermal Load

Harm Caused	Thermal Dose Units (TDU) (kW/m²) ^{4/3} s
Pain	86 to 103
First Degree Burns	80 to 130
Second Degree Burns	240 to 350
Third Degree Burns	870 to 2600

Health & Safety Laboratory, 2004

For the purposes of establishing HPZs, the maximum distance to a thermal load of 342 (kW/m²)^{4/3} s is applied.

7.13 Entry Procedures into the EPZ

- Only authorized personnel may enter the response zones.
- Use the "Buddy System" when required.
- Keep in contact with the Incident Commander using two-way radio or mobile telephone.
- Schedule reports every 10 to 15 minutes while in the response zones.
- Wear personal protective equipment (PPE).
- Continuously monitor the concentration of combustible gas (LEL) in the area.

2025 Section 7.0 Page 10 of 65



7.14 Roadblocks

7.14.1 Isolating the EPZ with Roadblocks

The response zones are to be isolated by roadblocks to prevent entry of non-essential personnel. Roadblocks are to be established and manned by the Company or contract personnel with possible assistance from the police and/or local disaster services.

An ongoing situation may require the activation of additional contract safety personnel to provide relief at the roadblocks.

When contacting additional roadblock personnel, the following information must be provided:

- The nature, location and extent of the response zones.
- Suggestions on where to establish roadblocks.
- The current weather conditions (such as wind speed and direction).
- The estimated number of people living in the response zones.
- The name, telephone number and location of the Incident Commander.

Each roadblock location should have access to the following equipment:

- Road barricades.
- Radio or mobile communication equipment.
- Personal protective equipment.
- Flares and/or strobe lights.
- Area map.
- Roadblock checklist.
- Air Monitoring detection equipment.

This equipment is available from local contract safety companies.

7.14.2 Suggested Roadblock Equipment

- H₂S, LEL, CO, O₂ detection equipment (handheld instruments).
- High-visibility reflective vests.
- Communication equipment.
- Poisonous gas signs.
- Road barriers.
- ERP maps.
- Reflective triangles or cones.
- Flashlights (with batteries).
- Appropriate forms, such as air monitoring record and roadblock log of people leaving and entering the PAZ.
- Handheld stop signs.
- Personal protective equipment.
- Flares and/or flashing lights.
- First aid equipment.
- SCBA.
- Pens.
- Portable rotating emergency lights.
- Waterproof bag.
- Caution tape.
- Rain suit.

The permit holder must ensure that company equipment is operational meets industry standards.

2025 Section 7.0 Page 11 of 65



7.14.3 Setting up a Roadblock

- Park vehicle on an angle across the lane, activating four-way flashers and roof-mounted rotating beacon.
- Put on a reflective vest.
- Take a reading with your handheld monitor for H₂S and lower explosive limit (LEL), ensuring your roadblock is not too close to the edge of the EPZ. Record readings on the Air Quality Monitoring Log.
- Notify the Public Protection Group Supervisor once your roadblock is set up.
- Continue to monitor and record H₂S and LEL levels at scheduled intervals. Report to the Public Protection Group Supervisor at scheduled intervals.
- Maintain roadblock until the emergency is over and the stand down declaration is given or until relieved by other roadblock personnel.

To give motorists time to prepare to come to a stop, it is recommended that the roadblock personnel setup all available reflective triangles 100 metres apart, at a minimum distance of 200 metres before the roadblock.

Roadblock Statement

Hello, my name is _	(state your name).
	NorthRiver Midstream Inc NorthRiver is presently experiencing control problems ahead. This enough to warrant restricted access beyond this point and therefore I am requesting you take
an alternate route.	

Note: Confirm evacuation route and evacuation orders with Public Protection Group Supervisor prior to directing traffic on an alternate route

2025 Section 7.0 Page 12 of 65

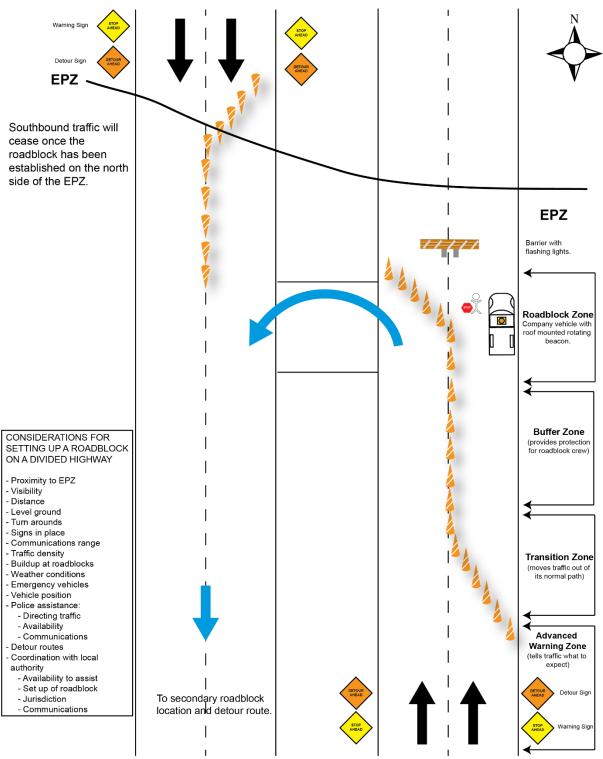


Primary Roadblock - Single Lane Roads Company vehicle with roof mounted otating beacon Roadblock Zone **Buffer Zone** (provides protection for roadblock crew) Considerations For Setting Up A Roadblock: - Visibility - Distance - Level ground **Transition Zone** - Intersection(s) (more appropriate to - Detour route multi-lane/divided highways) - Turn arounds - Dead end roads - Vehicle orientations - Soft shoulders **Advanced Warning** - Roadside turnouts **Zone** (tells traffic what to - Bends in the road - Signs in place expect) - Communications range - Industry activity Detour Sign - Weather conditions - Traffic density - Buildup at roadblock Warning Sign

Secondary roadblock locations might be established to facilitate re-routing traffic around the hazard area. All diverted traffic would be re-routed to the secondary roadblock locations.



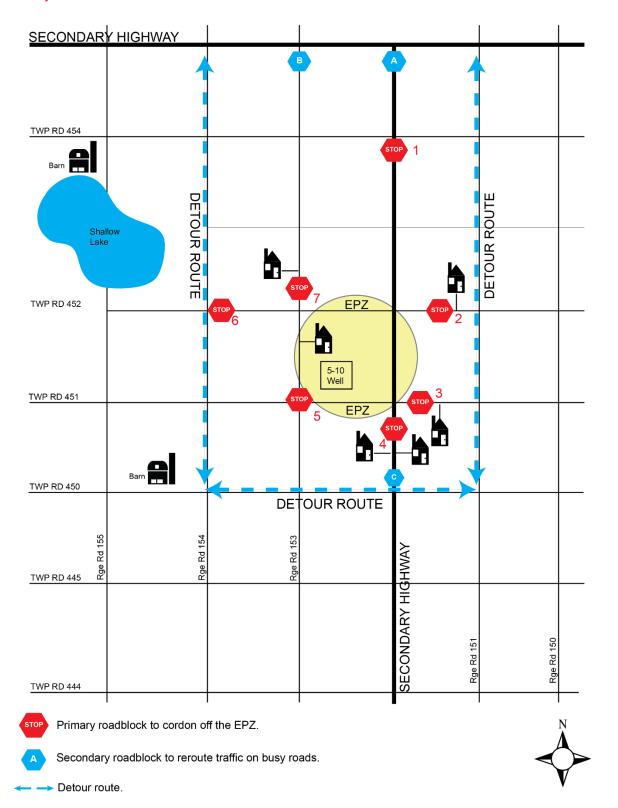
Primary Roadblock – Multi-Lane/Divided Highway



In this scenario, the roadblock will be set up prior to the arrival and assistance from either the Provincial Authority responsible for primary highways or the Police. Secondary roadblock locations must be established to facilitate re-routing around the EPZ area. All diverted traffic would be re-routed to the secondary roadblock locations.



Secondary Roadblock - Placement Schematic





7.15 Shelter in Place

Shelter in Place is an acceptable public safety action when there is no advanced warning to the incident, or the release is of a short duration (several minutes to half an hour).

Studies have predicted that the indoor concentration of toxic and flammable gases is significantly lower than the expected outdoor concentration levels.

Sheltering will be considered the primary protective measure in limited circumstances when:

- There is not enough time or warning to safely evacuate the public immediately.
- Stakeholders are waiting for evacuation assistance.
- There is a sour gas release of limited duration.
- The location of the release has not been identified.
- The public would be at a higher risk if they were evacuated.

7.15.1 General Shelter in Place Instructions

The following steps should be communicated to the public if individuals are asked to shelter in place:

- Immediately gather everyone indoors and stay inside.
- Close and lock all windows and outside doors.
 - If convenient, tape the gaps around the exterior door frames.
- Extinguish indoor wood burning fires.
 - If possible, close flue dampers.
- Turn off appliances or equipment that either:
 - Blows out or uses indoor air, such as:
 - Bathroom and kitchen exhaust fans.
 - Built-in vacuum systems.
 - Clothes dryers.
 - Gas fireplaces.
 - Gas stoves.
 - Sucks in outside air, such as:
 - Heating ventilation and air conditioning (HVAC) systems for apartments, commercial or public facilities.
 - Fans for heat recovery ventilators or energy recovery ventilators (HRV/ERV).
- Turn down furnace thermostats to the minimum setting and turn off air conditioners.
- Leave open all inside doors.
- Avoid using the telephone, except for emergencies, so that you can be contacted by emergency response personnel.
 - o Call the Company emergency number that you have been provided:
 - If you are experiencing symptoms or smelling odours (so that we can address your concerns and adjust our response priorities).
 - ➢ If you have contacted fire, police or ambulance (so that we can coordinate our response).
- Stay tuned to local radio and television for possible information updates.
- Even if you see people outside, do not leave until instructed by response personnel.
- If you are unable to follow these instructions, please notify the Company's emergency response
 personnel.

7.15.2 Post Shelter in Place Instructions

Once the emergency situation has been corrected you will receive a communication from the emergency response personnel. Advise the residents/area users/stakeholders to:

2025 Section 7.0 Page 16 of 65



- Ventilate the building.
- Open all windows and doors.
- Turn on indoor fans.
- Turn on the furnace.
- Avoid remaining inside during this time (if possible) as the outdoor air may be fresher.
- Once the building is ventilated, return all heating, ventilating and other equipment to normal.

7.16 Liquids Release – Site/Facility

7.16.1 Liquid Release Site Safety

- Activate the site evacuation alarm and establish safety zones to protect workers, residents and public. Reference EPZ map or utilize Emergency Response Guidebook for zoning guidance.
- Where the spill/release is flammable, eliminate any sources of ignition and monitor for Lower Explosive Limits.
- Reference SDS for released material's properties (located in the site office, drilling floor, etc.):
 - Exposures considerations.
 - Handling precautions.
 - Personal Protective Equipment.
 - Clean-up measures.
- Assess the specific hazards associated with exposure and response to the spill.
- Ensure that all site personnel are accounted for.
- Ensure all workers in proximity to the spill, are monitored to ensure their personal safety.
- Countermeasures must only be initiated where hazardous material exposure can be controlled within training levels of workers.

7.16.2 Action Plan for Liquids Release

- Where available consult the site-specific or field area section for an overview of spill potentials and environmental receptors including water bodies and streams.
- Contain release to the site recovering as much spilled material as possible.
- Protect surface waterbodies, groundwater and other sensitive environmental receptors in the area.
- Notify Company management and notify local emergency response agencies.
- Rapid mobilization of response contractors and any additional technical support.
- Establish decontamination procedures prior to commencing recovery efforts.

Evacuate and Restrict Access

- Evacuate personnel from the facility when required by the scale of the spill.
- Request through 911 roadblocks and or evacuation of residents where indicated.
- Provide facility security at the access points to the facility to:
 - Restrict access to areas in proximity to the spill.
 - Maintain accountability of the personnel on site.
- Initiate the notification and access control to exposed or threatened public areas off-site.
- Coordinate roadblocks.

Identify the Released Material

- Identify the spilled product:
 - Chemical Name.
 - Common name.
 - Class.
 - Type.
 - UN/DOT Number.
- Reference the product's SDS identifying:
 - The flammability of the spilled product.
 - PPE requirements for proximal exposures and handling of the spilled product.
 - Released materials reaction with organic materials.

2025 Section 7.0 Page 17 of 65



 Immediately report the release event to the line supervisor, providing all known information available.

Identify the Release Parameters

- Identify the source of the release.
- Identify and remove any known potential ignition sources for the spilled product within the Planning Zones.
- Initiate monitoring of any flammable or combustible material:
 - o Identify and monitor elevated LEL areas.
- Identify:
 - The likely spill exposure area.
 - Velocity and volume of the release.
 - Potential to erode or overcome site containment features.
 - The potential worst-case scenarios.
- Consider discontinuing operations for larger dynamic release events.

Identify the Release Exposures

- Reference available site documents.
- Identify the release exposure to the Spill Retention Basins (SRBs).
- Identify the release exposure to Environmental receptors (e.g. water bodies, streams, ground areas with high permeability, marshes, etc.).
- Identify any public or resident exposures.

Identify the External Resources Required

- Responding agencies.
- Technical personnel.
- Manpower.
- Equipment.
- Specialized materials.

Report Incident Information to the Incident Command Post

- Event timeline.
- Material released.
- Hazards and exposures generated from the released material.
- Volume of release.
- Volume-rate of release.
- Likely total volume of release.
- Worst case release volume.
- Off-site areas of release sensitivity.
- Current release control actions.
- Planned release control actions.
- External resource support required.

Initial Countermeasures

- All response personnel shall wear appropriate PPE.
- Provide a decontamination station for responders and initial containment personnel.
- Stop the flow of product at the source if safe to do so:
 - Close Isolation Valves.
 - Shutdown Transfer Pumps.
 - Transfer materials from leaking tanks into available and compatible undamaged storage tanks, vacuum trucks or lined secondary containment areas.
- Attempt control of the release by:
 - Confining the released materials to on-site areas.
 - Utilize absorbent booms and pads to contain and clean-up smaller release events.
 - Directing the release away from and limiting the negative exposure or spill accumulation in or around critical site facilities and components.

2025 Section 7.0 Page 18 of 65



- Utilize the Spill Retention Basins (SRBs) as release control points:
 - Immediately plug off/cap the discharge pipes.
 - Block off drainage ditches, culverts and discharge pipes with sandbags, earthen dikes, and other available materials.
- Where containment is not possible, attempt to divert the release in a direction that may:
 - Allow for containment.
 - Use natural containment (topography).
 - o Provide an outfall away from waterways.
 - Limit exposure of sensitive areas.
 - Limit public exposure.
- Adequately monitor Facilities for:
 - Leaks, pressure build-up, and gas generation.
 - Valve, pipe and equipment ruptures.
- Where a material release has entered waterway and cannot be contained, attempt to create control points:
 - In the event that the released material is lighter than water, create a dam with an underflow water passage to allow clean water flow while retaining and controlling the released material at the dam location.
 - In the event that the released material is heavier than water, create a dam with overflow water passage past the dam to allow clean water flow while retaining and controlling the released material at the dam location.

Management of Recovery Operations

- Track and document the areas outside the fence line, with regard to:
 - Release volume.
 - Proximity/exposure monitoring.
 - Control actions time-based record.
 - Clean-up actions time-based record.
- Initiate soil sampling and regulatory communication about remediation as maybe required.
- Recover surface fluids and contaminated soil.
- Fence-off release areas to protect people and wildlife until reclamation is complete.
- Contaminated material must be placed in appropriate impermeable storage (steel tank, lined containment area, etc.), sampled and disposed of at an approved licensed disposal facility.
- Plan adequate storage and disposal of any recovered/ contaminated product.
- Follow approved Transportation of Dangerous Goods (TDG) regulations when shipping recovered /contaminated materials.

7.17 Spill Contingency Plan

The purpose of this Spill Contingency Plan is to define procedures for responding to discharges of petroleum or refined products that flow offsite and/or that impact surface water features such as drains, wetlands, ponds, or creeks.

The objective of the procedures described in this Spill Contingency Plan is to protect the public, Company personnel, and other responders during spills or releases and clean-up operations. In addition, the Spill Contingency Plan is intended to minimize damage to the environment, natural resources, and facility installations from a discharge.

This Spill Contingency Plan describes the responsibilities and procedures for responding to a petroleum or refined products discharge and performing clean-up operations.

7.17.1 Spill Preparedness Risk Analysis

The risk analysis is the identification of potential spill sources and product types from a company's operations, the potential hazards that could result from an uncontrolled release and the determination of the vulnerability of an area

2025 Section 7.0 Page 19 of 65



should a spill occur. The possibility that a spill could occur under all conditions in a given area must be anticipated. In terms of spills, higher risk operations are often linked with having facilities and/or transporting products in close proximity to the public and environmentally sensitive area including those areas that have surface water.

A typical risk analysis of a company's operations includes the following components:

- An evaluation of products handled in terms of their characteristics during an uncontrolled release as well as their impact on people, property and the environment.
- Familiarization with the environmental sensitivities around facilities and in areas where the products are handles and/or transported.
- Compliance with legal and company requirements (i.e. laws and regulations, industry standards, policies, procedures and guidelines).
- Review of construction and maintenance procedures.
- Evaluation of the spill prevention program.
- Review of the company emergency response plan and spill contingency plan.
- Evaluation of the overall company's response capability for each area of operation.

7.17.2 Seven Step Guideline for Spill Response

For specific spill volume thresholds and reporting requirements, see the applicable Jurisdictional Section in this ERP.

Step 1 – Collect and Document Spill Reporting Information

One of the first steps in a spill response will be to collect and document spill-reporting information. This emergency response plan has a spill report form that can be used to collect critical information. Ensure that staff are familiar with the spill report form and know who to pass information on to. Information documented on the spill report form will be used to notify initial spill responders, company contacts and where appropriate, government and land contacts. It is important to ensure that a contact number is recorded for the person that reports the spill and that there is follow-up contact with that person. Typical information on a spill report form includes:

- Person reporting and contact numbers.
- Operator, company and/or licensee information.
- Date and time of incident.
- Type and volume of the spilled product (product identification number if available).
- Incident cause.
- Incident location and site description.
- Safety concerns.
- Environmental issues.
- Level of emergency.
- Public concerns issues.
- Spill response activities.
- Contact information.

Responder tools will depend on the types of spills. If an employee has been identified as having a spill response role, it is important that he/she has quick access to initial response tools including:

- An emergency response plan or key information (e.g. contact lists, resource lists, access and control point maps) extracted from the plan.
- Communications equipment.
- Appropriate personnel protective equipment including a personal and/or electronic monitor (gas detector).
- Recording equipment (e.g. notebook, pens, and camera).
- Portable barriers and/or hazard warning ribbon.
- A compass and measuring equipment (e.g. topofil, tape measurer).
- Personal items (e.g. water, extra clothing, snacks, etc.).

2025 Section 7.0 Page 20 of 65



• Wind indicators (e.g. portable windsocks, Teflon tape).

In addition, it may be of value to have access to some basic spill containment and sampling equipment including:

- Shovel
- Rubber mat and/or plastic to cover storm and/or sewer drains and plywood to block culverts.
- Sorbent booms.
- Basic patching equipment for container leaks.
- Sampling equipment and containers.
- Quantabs for assessing salinity at produced water spills.

Step 2 – Dispatch Initial Responders to the Incident Site

Following the notification of the incident dispatch initial responders to the spill site to:

- Verify that there is a spill.
- Gain site control.
- Assess the incident.
- Make appropriate contacts.
- Develop an incident action plan.
- Isolate the leak.
- Initiate containment and recovery if safe to do so.

On route to the site, responders should consider how they would safely approach the area to minimize exposure. In general, the site should be approached from upwind and from high ground if possible, with appropriate PPE and detection equipment.

Three important things for responders to remember during the initial response are:

- 1. To protect the lives and well-being of spill responders.
- 2. Initial responders must only attempt what they are capable of doing safely.
- 3. Sounding the alarm with a call for help should be anticipated.

HELP! Where from?

- Internal resources.
- Other companies.
- Government agencies.
- Fire departments.
- Police.
- Ambulance.
- Contractors.
- Spill specialists.

It will be important that the response team have pre-determined organizational structure with a spill response team leader and that each member clearly understands his/her role. The initial response team should be organized so that they work in pairs (buddy system) prior to taking any action on-site. Good, clear communications within the initial response team is critical. If additional help is required, the initial responders should identify a practical meeting location that can be used as a staging area for manpower and equipment.

Step 3 – Arriving at the Spill Site – Site Control

One of the most critical steps once the responders arrive on the incident scene is for them to take control of the site. It is essential to keep all personnel out of the hazardous area until the identification of the nature and degree of hazards is known, and the initial assessment completed. This includes not only hazards from the spilled material but other physical hazards such as power lines, etc. Although no two spills are the same and not all of the assessment information is immediately available, the following general sequence of site control techniques is common during a disciplined spill response:

2025 Section 7.0 Page 21 of 65



- Verify who is in command.
- Identify the emergency planning zone which is the area of greatest concern related to the hazards associated with the event.
- Secure all non-essential personnel from the emergency planning zone and identify the emergency planning zone with ribbon and/or barricades if possible.
 - This step could include the evacuation of a large number of people and outside assistance will likely be required.
- Identify an entry and exit checkpoint at the periphery of the emergency planning zone to regulate the flow of personnel and equipment.
- Control all access to the emergency site by adding a contamination reduction zone which is a transitional or buffer area and a support zone which is a clean area for the On-Site Command Post (OSCP), equipment, staging, etc.
- Identify a safe area within the contamination reduction zone to remove contamination from response personnel, their clothing, and equipment.
- Eliminate all potential ignition sources if safe to do so.
- Identify an emergency signal, escape routes, and a meeting location for response personnel.
- Place wind indicators at appropriate locations.
- Ensure responders understand the issues related to site management and understand their role.

If there is an injury at the spill site when the responders arrive it may be necessary to provide primary care to the injured persons until medical professionals arrive. In remote areas, it may be advantageous to consult with a physician via radio or phone and provide care for the injured during the transferring of the injured to medical professionals. It is extremely important that responders do not take an unreasonable risk when attempting a rescue operation at the incident site.

Step 4 – Situation Analysis

Following their arrival on-site, the response team will conduct an assessment of the spill, sometimes referred to as a situation analysis. The analysis can be broken down into smaller components as follows:

- What is the problem?
- What variables can affect it?
- What are the potential losses and critical issues?
- What is needed to protect response personnel?

The Problem?

Analyzing the problem means looking at the quantity and nature of the material, type and behavior of the container and stage of incident.

- Identify the spilled substance.
- Identify of the hazards associated with the uncontrolled release.

Sources of Information Include:

Operator Knowledge: The owner of the spilled material is a good source of information related to product identification, characteristics of the material and typical hazards associated with an uncontrolled release. The owner also has access to Safety Data Sheets (SDS) and an emergency response plan.

Shipping Documents: If the spill is linked to a transport vehicle, shipping documents or a waste manifest will be in the road vehicle within reach of the driver (i.e. seat or door pocket). The shipping document will outline contact information, a description of good carried, quantity of goods and an emergency response telephone number.

Safety Marks/Labeling: Placards (250 mm x 250 mm) used to identify loads over 450 litres, labels (100 mm x 100 mm) used to identify product in smaller containers and safety marks provide visual clues related to the identification and hazards associated with the spilled product. An international system of safety marks that responders should be familiar with includes:

2025 Section 7.0 Page 22 of 65



- Class Number: Eight classes of dangerous goods are identified including; Class 1-Explosives, Class 2-Gases, Class 3-Flammable Liquids, Class 4-Flammable Substance, Class 5-Oxidizers/Organic Peroxides, Class 6-Toxic/Infectious Substances, Class 7-Radioactives, Class 8-Corrosives, Class 9-Miscellaneous
- **Colour:** The color of the safety mark will also provide clues as to the type and hazard associated with the material; for example, red indicates that the product is flammable.
- **Number:** A United Nations (UN) number, a four-digit number has been assigned to all dangerous goods; for example, gasoline is UN 1203, diesel fuel is UN 1202, and crude oil is UN 1267.
- **Container Identification:** The size and shape of the container involved in an uncontrolled release can also provide responders with a visual clue related to that container's contents.

Emergency Response Guidebooks: These guides help the responder identify the material by listing all of the United Nations (UN) numbers and linking the number with the name if the material and/or listing the materials in alphabetical order. The guidebook also provides a general guideline on potential hazards, public safety issues and emergency response considerations for each of the materials listed in the book. In addition, the guide includes initial isolation and protective action distances that can be used to zone a spill site (i.e. flammable liquids isolate spill for at least 25 to 50 meters in all directions).

Computer databases: Countries maintain emergency response telephone numbers where the responder can obtain specific information regarding the spilled substance.

In terms of quantity, responders should be concerned with both the amount of product spilled and the amount that could be spilled. The type, condition and behavior of the container will help responders estimate spill volumes and forecast potential problems.

Variables That Affect the Spill:

There are three primary variables that have an impact on a spill including the location of the spill, the time the spill occurs, and weather conditions. It is important to remember that no two spills are the same and that these variables can affect the spill in many different combinations.

Spill Location

The spill location will likely have the greatest impact on the number and complexity of issues that a response team is faced with. The following are typical examples of how location can affect the spill's impact:

- Populated versus Unpopulated areas: Spills in remote areas will likely have less impact on the
 general public, as opposed to the same incident occurring in a populated area. Remote areas
 usually have their own unique characteristics that can present challenges to the responsible party
 (i.e. communications problems, resource availability, equipment access, exposure to wild animals,
 etc.).
- Spills in Surface Water versus Land Based Spills: Spills that migrate into surface water are
 much more complex to deal with than land-based spills. The issues become more complex when
 there is a current carrying the product downstream, particularly when there are downstream water
 users, and the stream or river is abundant in fish and wildlife.
- Land Uses: It is not uncommon for there to be several land uses associated with a spill incident. The more land uses affected by the spill, the more issues the response team is usually faced with.
- **Spill Site Characteristics:** The soil structure, vegetation types, presence of storm, and sewer drains, topography, and man-made structures at a spill site are just a few of the potential site characteristics that can have an impact on the incident.

2025 Section 7.0 Page 23 of 65



Time

The time of day, day of the week and month of the year all have an impact on the issues related to the incident. For example, a spill that occurs in the middle of the night will probably have a delay in the overall response.

Weather Conditions

Weather conditions can help or hinder the conditions at a spill incident. Wind can have major effect on downwind exposures, it can change directions in a matter of seconds and move spill vapours into highly sensitive areas. In some cases, stronger winds can disperse vapours and reduce the flammable range and toxicity of a hydrocarbon plume migrating from the incident site. Strong winds also have the potential to blow debris around the site and cause dead standing timber to fall. In the absence of wind, vapours can pool in low areas in and around the spill site. Wind can also affect the movement of a spilled substance on surface water by increasing or decreasing the spreading rate and pushing the substance in a downwind direction.

Temperature may have an effect on the behavior of a spilled substance and can reduce or increase vaporization rates. In addition, temperature extremes can present health risks to responders such as heat stress, hypothermia and exposure to lightning strikes. Travel time for responders can also be influenced by weather conditions.

Winter conditions present their own unique problems such as product mixed with or under ice and snow, short days, cold temperatures, equipment limitations, etc.

Identification of Potential Losses and Critical Issues

Generally potential losses resulting from a spill include:

- Health and welfare of people linked with the incident including the spill response team.
- Health and welfare of domestic animals, fish and wildlife.
- Damage to property and equipment.
- Negative impact to the environment.
- Impact on a company's image.
- Costs incurred from losses and response activities.

It is important to identify all land uses and stakeholders that are or could be affected by the spill. In some jurisdictions, a list of land uses can be obtained through an electronic data base. Other sources of information include contingency plans, local residents, regulatory personnel (e.g. lead agency for spills, police, fish, and wildlife and forestry), area operators, utility companies, municipal offices, and unique area experts like trappers and recreational users. Identifying the stakeholders will help responders to identify spill issues and formulate a response plan. Not all this information will be available during the first few critical hours of the incident; however, it will be necessary to obtain it for an effective response. Identifying the stakeholders affected by the spill will help define the critical issues related to the incident and to prioritize those issues based on the spill response priorities, protection of life, property and the environment.

At this stage of the analysis it is advantageous to characterize the spill as stable or unstable. Stabilized means that all fires have been extinguished, all ignition sources have been controlled and all spills have been contained. Unstable means that conditions at the site are changing and control of the incident is pending.

Step 5 – Documentation and Information Management

Documentation of the incident is extremely important and should be initiated early in the response and maintained throughout the event. Documentation requirements will depend on the nature if the incident and should include the following:

First Report: Date and time of release, location of the point of release, composition of the release, quantity of spilled substance, release cause, circumstances leading up to event, and initial response activities.

Spill Response Organizational Structure: Outline of the organizational structure with contact information.

Site Description: Spill sketch, photos, and map. **Event Records:** Chronological record of events.



Safety: Findings of initial hazard assessment, safety controls, safety meetings, worker requirements, safety orientation, incident reporting, equipment, and resources.

Environmental Issues: Sensitivities, sampling information, waste management plan, etc.

Negotiations and Agreements: Internal company representatives, regulatory, and third-party contractual agreements. It is also important to maintain detailed records of site visitors, their contact information, reason for visit and specific details related to their involvement.

Incident Action Plan: An overview of the issues and plan to deal with those issues.

Regulatory Spill Reporting: Regulatory spill reporting requirements, located in this ERP, are dictated by the type of spill, the spill volume, and location of the spill. Non-compliance related to spill reporting usually leads to enforcement action and substantial fines.

Type of Spill: In most jurisdictions an upstream petroleum-based spill is reported to the lead Regulatory Authority. Refined product spills and chemical spills are reported to the environmental agency. There is normally a memorandum of understanding between the Regulatory Authority and Environmental Agency related to ensuring that they advise each other of appropriate incidents. If the spill is caused by a transportation incident and the spilled product is regulated under the Transportation of Dangerous Goods Act, it is a requirement to report the incident to police as well.

Spill Volume: Provincial/State legislation identifies the minimum volume of spilled material that must be reported. In transportation-based spills where the product is TDG regulated, the minimum spill volumes are outlined in the Transportation of Dangerous Goods Act and Regulations.

Location of Spill: If the spill is not reportable because the volume is less than the reportable volume, but the spill causes an adverse effect (negatively impacts people, property, and/or environment) it is considered a reportable spill.

Step 6 – Developing the Incident Action Plan

Once the spill responders have control of the site and have completed the assessment, they should develop and document an incident action plan. The plan will identify spill issues and outline tactical objectives for dealing with the issues. The following is an example of some of the issues that could be included in an incident action plan:

- Emergency conditions.
- Hazards, risks and assessment information.
- Issues identification.
- Safety controls.
- Response objectives, tactics and alternative options.
- Resources.
- Organizational structure.
- Names of individuals and agencies participating in discussions.
- Waste management.
- Sampling and analysis.

The incident action plan is subject to change. The response team evaluates the incident on a continuous basis and new spill issues are introduced as the incident progresses. It is important that responders review the plan on a frequent basis, make changes if appropriate and ensure that stakeholders are aware of those changes.

Step 7 – Implementation of Response Objectives

Once the incident action plan has been developed, the response team will implement response objectives. The incident will be handled offensively, defensively or by non-intervention.

 Offensive tactics require responders to control and/or mitigate the incident within the higher risk areas of the event. Safety controls must be in place to undertake offensive tactics.



- Defensive tactics allow responders to control/mitigate the emergency remote from the higher risk (i.e. installing barriers to prevent product from migrating into sensitive areas, deploying boom at downstream control points, etc.).
- Non-intervention refers to responders taking limited action at the emergency site, normally additional resources arrive.

7.17.3 Company Spill Discovery and Response Actions

The Company has the primary responsibility for providing the initial response to spills and releases originating from one of their wells, facilities, or pipelines. To accomplish this, the Company has implemented the Incident Command System (ICS), developed response plans, and completed training to respond to a spill or release event. The Incident Commander plays a central coordinating role in any emergency situation.

The Incident Commander will direct notifications and initial response actions in accordance with the company Emergency Response Plan, training, and capabilities.

Discharge Discovery and Source Control

Upon discovery of a leak or spill the following actions should be taken:

- Immediately report the discharge to the Company Supervisor, providing the following information:
 - Exact location
 - Material involved
 - Quantity involved
 - Topographic and environmental conditions
 - Circumstances that may hinder response
 - Injuries, if any
- Turn off all sources of ignition.
- Locate the source of the discharge.
- Turn off all equipment related to the incident that could add to the impact of the release.
- If safe to do so, isolate the affected equipment by closing off the closest valves upstream and downstream from the discharge source.

Assessment and Notifications

Notifications to the appropriate Regulatory Authority must occur after the discovery of reportable discharges. The reporting clock starts when the first company or contract employee discovers the discharge.

- Investigate the discharge to assess the actual or potential threat to human health or the environment. Also consider:
 - Location of the discharge relative to receiving water bodies (drainages, creeks, or streams)
 - Quantity of spilled material
 - Ambient conditions (temperature, rain)
 - Other contributing factors such as fire or explosion hazards
 - Sensitive receptors downstream (wetlands, ponds, or reservoirs)
- Request outside assistance from local emergency responders, as needed.
- Evaluate the need to evacuate the facility and evacuate employees, as needed.
- Assess whether community evacuation is needed. Notify the local authority, fire/police for assistance, as needed.
- Contact Company Supervisor to determine if Regulatory Authority notifications are required.
- Communicate with property owners regarding the discharge and actions taken to mitigate the damage.
- If needed, bring in outside contractors and order recovery equipment such as vacuum trucks and backhoes to stop the flow. Mobilize equipment and resources to the spill site as soon as the need is identified
- If spilled fluids reach (or threaten to reach) any nearby drainages or surface waters, you may need to notify the local authority, Regulatory Authority fire/police to limit access to the water by local

2025 Section 7.0 Page 26 of 65



residents until the product has been contained and recovered. Additionally, notify downstream water users of the spill and of actions that will be taken to protect these downstream receptors.

Control and Recovery

The Incident Commander directs the initial control of the release and other contractor personnel. The actions taken will depend on whether the product has reached water or is confined to land. All effort will be made to prevent the release from reaching water.

If the product has not yet reached water:

- Deploy sandbags and absorbent socks down gradient from the product, or erect temporary barriers such as trenches or mounds to prevent the product from reaching water.
- Implement land-based response actions (countermeasure) such as digging temporary containment pits, ponds, or curbs to prevent the flow of product into any water.
- Deploy absorbent sock and absorbent material along the water line to prevent product from entering waters.
- Contact clean-up contractor(s).
- Deploy floating booms immediately downstream from the release point.
- Control product flow on the ground by placing absorbent socks and other absorbent material or
 physical barriers (e.g., kitty litter, sandbags, earthen berm, trenches) across the product flow path.
- Deploy additional floating booms across the whole width of the affected waters at the next access point downstream from the release point. Plan ahead and access the stream or waters from safe locations.
- Deploy protective booming measures for downstream receptors that may be impacted by the spill.

Spill Clean-up/Mitigation/Reclamation

Once the pipeline break or leak has been located and isolated and the area has been secured, the following procedure should be followed.

- Determine if there are any other pipelines or utilities within 30 metres of the break or leak site. If so, the licensee of these lines must be contacted before any ground disturbance occurs.
- Uncover the affected section(s) of pipeline by the safest method. Hand excavation or hydrovac should be used whenever the break is within 5 metres of the pipeline in question or another pipeline until the break or leak is located.
- Expose the pipeline break or leak, ensuring that the proper trenching, back sloping and shoring techniques are used and that a safe route of access and egress is maintained at all times.
- Obtain a sufficient number of samples of effluent to quantitatively determine its physical and chemical properties.
- Drain effluent into a bell hole and remove the impacted soil and waste to an approved disposal site.
- Photographs are to be taken throughout the operation for documentation.
- Refer to the Environmental Regulatory Authority regarding land reclamation standards and requirements.

Decontamination Guidelines

These guidelines are for personnel directly exposed (or suspected of exposure) to oil or chemicals or their vapours, products of combustion, etc. The intention is to provide a general overview of those decontamination situations most likely to be faced by Company responders.

Decontamination areas:

- Will be set up as needed during response operations.
- These areas are to be used for decontamination at the work site.
- They are not to be used as a substitute for personal hygiene prior to arrival.
- Are designed to protect the health of response personnel and to prevent the spread of contamination into 'clean' areas.

2025 Section 7.0 Page 27 of 65



- In the field, it will not be possible to remove all contaminated clothing before taking a break from
 work. It is essential, however, to clean hands and face to avoid inadvertently ingesting oil or
 spreading contamination to otherwise protected parts of the body.
- In the field, provisions will be made for:
 - Soap, water, paper towels, waterless hand cleaner, and/or other materials for washing hands and feet.
 - Refuse containers.
 - Eyewash station.
 - Safety equipment and clothing as needed.

Full decontamination will be required at the end of the daily shift. Typically, this involves reporting to an area designed for removing contaminated clothing. This must be done carefully to avoid allowing the contaminated clothing to come into contact with the skin or clean clothing. Cleaning stations are used to scrub the body thoroughly in order to remove all traces of chemical or other contaminants. Once fully decontaminated, clean clothing will be put on and contaminated clothing will be cleaned appropriately.

Communications and Control

A Command Post will be set up near the incident site in the event of a discharge. The Command Post will be equipped with a variety of fixed and mobile communication equipment (telephone, cell phones, computers, etc.) to ensure continuous communication with Company management, responders, authorities and other interested parties. Additional equipment will be obtained from the response contractor in the event that more communications equipment is necessary.

The Incident Commander is responsible for communicating the status of the response operations and for sharing relevant information with involved parties, including Company Management; local, provincial and federal authorities.

Disposal of Recovered Product and Contaminated Response Material

The Incident Commander ensures that all contaminated waste materials are disposed of in accordance with all applicable solid and hazardous waste regulations. Contact the Company Supervisor to get guidance on approved disposal locations. In some cases, on-site treatment (bioremediation) may be approved, minimizing costs.

- Place any recovered product that can be recycled into an on-site tank to be separated and recycled.
- Dispose of recovered product not suitable for on-site recycling with the rest of the waste collected at an approved and permitted location.
- Collect all debris in properly labeled waste containers (impervious bags, drums, or buckets or a roll
 off bin with a liner).
- Collect samples to characterize the waste for shipping and obtain approvals from licensed disposal facilities. Prepare shipping manifests and shipping documents as needed.
- Dispose of contaminated material in accordance with all applicable solid and hazardous waste regulations using a licensed waste hauler and disposal facility.

Termination

The Incident Commander ensures that clean-up has been completed and that the contaminated area has been treated or mitigated according to the applicable regulations and provincial/federal clean-up requirements. In some cases, the spill area soil must be sampled before backfilling can take place. The Incident Commander collaborates with the local, provincial or federal authorities regarding the assessment of damages, as needed.

- Ensure that all repairs to the equipment or pipelines have been completed.
- Review circumstances that led to the spill or release and take all necessary precautions to prevent a recurrence. Apply lessons learned to all operations.

2025 Section 7.0 Page 28 of 65



- Evaluate the effectiveness of the response activities and make adjustments as necessary to response procedures and personnel training.
- Carry out personnel and contractor debriefings as necessary to emphasize prevention measures or to communicate changes in operations or response procedures.
- Restock spill response supplies.
- Submit any required follow-up reports to the authorities.

Training Exercises and Updating Procedures

The Company maintains an ongoing training program to ensure that personnel responding to discharges are properly trained and that all necessary equipment is available to them.

Following a response to a discharge, the Incident Commander and Company Management will evaluate the actions taken and identify procedural areas where improvements are needed. The Incident Commander will conduct a briefing with field personnel, contractors, and local emergency responders as needed to discuss lessons learned.

7.17.4 Spill Management Techniques

Spills on Land - Containment

General Containment Procedures

- 1. If the spill is not flowing or spreading, no containment is required.
- 2. Use the information gained from the assessment to plan the location of the initial containment measures and determine what type of measures will be required (e.g., booms, sorbents, etc.).
- 3. Organize and install the containment measures in order of priority to prevent the spill from getting larger and to protect sensitive areas. This will reduce the amount of clean-up work and result in lower clean-up costs and damage settlements. Oil Spill Co-op Contingency manuals should be referred to for the most appropriate containment techniques.
- 4. Local topography, locations of nearby streams, water bodies, and sewer outfalls, etc., should be taken into account when planning the location of containment berms and dikes. Appropriate Oil Spill Co-op Contingency manuals should be consulted for more information on this subject.
- 5. Containment berms and dikes should be deployed on land in a manner that will prevent any spilled material from entering a water source. Contingency back-up plans should be developed in case of a breach or failure of a containment structure.
- 6. If necessary, topsoil should be stripped from areas that will be affected by a fluid spill prior to the spill reaching that area.
- 7. If necessary, the area around the spill should be fenced off to prevent wildlife and livestock from entering the spill area.
- 8. If the material is producing flammable or noxious vapours, apply an appropriate foam suppressant to reduce and control the fire/vapour hazard to the surrounding area.
- 9. In the event of fluid spills breaching existing containment structures, contingency plans should be immediately implemented to prevent any materials from entering streams or water bodies.

Containment Techniques

Sorbing Boom and Blanket

Booms and sorbent blankets may readily contain small spills, especially those that have accumulated on the surface and not infiltrated the soil. Judge the amount of boom needed and assess migration potential based on weather conditions and the topography of the spill area.

Earth Berm

1. Where equipment is available for hand or machine digging, earth berms and containment dikes can be used to contain spills.

2025 Section 7.0 Page 29 of 65



- 2. Suitable soil material (i.e., clay, silt) should be used in the construction of containment dikes and berms. Topsoil material should be stripped and preserved for reclamation procedures.
- 3. Where soils or surface materials are too permeable to provide adequate containment of spilled fluids, berms/dikes can be fortified with plastic sheeting or sorbent blankets to make the berm less permeable.

Subsurface Trenching

- Trenches may be contoured to direct, or funnel spilled fluids towards a bellhole or other collection/containment
 area. If required, trenches and berms may also be constructed upstream of the spill to direct water or run off
 away from the spill.
- 2. Where significant subsurface flow of contaminants is anticipated, subsurface trenching will be required to intercept and contain any subsurface flow and direct it towards a bellhole or other low permeability containment area.
- 3. The specific pattern of trenching depends on the topography and flow regime in the subsurface materials. Trenches are most effective if they can be dug to the depth of the impermeable cemented hard pan or bedrock.
- 4. The bellhole containment area must be lined or located in impermeable material.

Liquid Spills on Open Ground

- 1. Spills on open ground are common to the oil and gas industry. Pipeline ruptures during the course of day-to-day operations and overflows of production fluids during well development/ completion activity account for a large portion of these material spills. Once on the ground, the spread of fluids is influenced by local topography and permeability of the soil. These two (2) factors together can make containment and clean-up operations difficult. Spills in areas of high relief can spread considerable distances in a short period of time causing greater aerial impact.
- 2. Fluid spills in areas with soils having high permeability should be cleaned up quickly in order to reduce the amount of infiltration into soil layers.
- 3. Spills should be cleaned up from the perimeter towards the centre. Travel through the affected area by equipment or personnel should be avoided at all times.
- 4. Universal or specific use absorbents can be used to collect spilled material from the containment area. Spill Co-ops can be contacted for information regarding the appropriate uses of available absorbents.
- 5. Contaminated soil should be excavated and removed to an area where runoff or leaching of the contaminants into the soil can be prevented.

Liquid Spills on Paved Areas

- 1. In areas of high relief, fluids spilled on pavement may travel rapidly over considerable distances. The viscosity of the fluid, the local relief, and lack of obstructions on the smooth surface will all affect the rate at which the spill will spread. If not contained, spilled materials may enter sewer outfalls and be transported into the local sewage system or into nearby water sources, which would complicate containment and recovery of the spill. This could potentially result in contamination of water sources and wildlife habitat. In such cases it is imperative that spilled materials are contained immediately and diverted away from any sewer outfalls that are within reach of the spill.
- 2. Spill Co-op procedure manuals can be consulted for the most effective method of containment and clean-up when dealing with particular fluid spills.
- 3. Location of downstream sewer outfalls, drainage ditches, streams, or water bodies should be determined so that they can be plugged or bermed to prevent spilled material from entering.
- 4. Foam suppressants should be applied on the spill if dangerous vapours are present.
- 5. Once contained, clean-up should start immediately. Spilled materials should be moved to collection areas utilizing shovels, scoops, squeegees, brooms, etc., and then removed by vacuum trucks.
- 6. Appropriate absorbent materials can be utilized to accumulate spilled material that cannot be moved to collection areas. Oil Spill Co-ops should be consulted to determine the most appropriate absorbent material.

2025 Section 7.0 Page 30 of 65



7. Used absorbent materials should be stored in barrels or another appropriate container and disposed of appropriately.

Solid Materials Spills on Land

- Solid material spills on the land can lead to extensive environmental impacts. Material spills of this nature spread through wind and surface runoff. If not properly contained and secured, this material can travel considerable distances or become incorporated in local water bodies, adversely affecting the water quality and associated habitat. Runoff from the spill area can also contaminate these water sources if not properly collected.
- 2. Appropriate PPE should be donned before attempting to contain and recover spilled materials. Depending on the material, this may require the use of respiratory protection, goggles or facemask, rubber gloves, boots, and/or disposable or other coveralls.
- 3. No clean-up actions are to take place until the spilled material is identified, and the correct safe handling procedures are put in place.
- 4. Environmental Regulatory Authority, local spill co-ops, and/or the manufacturer can be contacted to determine the appropriate containment and removal methods to use for the type of chemical spilled.
- 5. Extensive dry chemical spills should be covered immediately with secured plastic sheets to reduce the potential for the material to become wind-borne or leach into the soil from rainfall.
- 6. Dry chemicals can be removed with a shovel or by mechanical means and disposed of in an appropriate manner.

Spills on Land – Recovery and Removal

Sorbents

Sorbents can be used for small spills of oils, fuels, and lubricating oils that have not infiltrated the ground surface, or any other location where free product is floating or ponded.

Shovel and Barrel

Small crude/lubricating oil spills that have soaked into the ground can be dug out with a shovel. If the spill occurs on lease, spread the oil-soaked soil on a designated treatment area and work it into the first 5 cm of clean soil along with some manure and straw or other fibrous material. This can be worked in with a shovel and rake if the amount is small.

Vacuum Truck and Pumps

Hydrocarbons and saltwater can be recovered from containment areas or from standing water using vacuum trucks. The material is then transferred to holding tanks, sumps, or other approved facilities. Alternatively, 400 bbl tanks can be hauled to the site and set near the collection bell holes. Recovered fluids can then be pumped directly from the bellholes.

Earth Moving Equipment

Large earth moving equipment such as graders, scrapers, hoes, and front-end loaders may be utilized to contain and move oil contaminated sediments to a pre-approved storage, treatment, or disposal area. If the amount of oily sediment is small, it can be spread on a designated treatment area with some manure and straw or other fibrous material to biodegrade the contaminated material.

Recovery Wells

Where spilled hydrocarbon or saltwater has infiltrated subsurface permeable materials and removal of the contaminated material is not desirable, it may be necessary to drill recovery wells around the spill area to the necessary depth, so the fluid can be intercepted and pumped to the surface.

Spills on Water - Containment, Recovery, and Removal

In situations where a substance that may be deleterious to the health and/or safety of humans and/or livestock or irrigated crops has been spilled into a watercourse it is necessary to notify regulators immediately and warn downstream users to take appropriate actions.

2025 Section 7.0 Page 31 of 65



General Containment Procedures

- 1. In stagnant water bodies, floating booms should be deployed in a manner that will utilize winds and currents to help reduce the spreading of the spill.
- 2. Shorelines should be protected with floating booms, sorbent booms, or sorbent mats before the spill is moved to shore for removal.
- 3. In slow flowing watercourses (less than 1 km/h), floating booms should be placed downstream to accumulate spilled material. At higher rates of flow, booms should be angled in a manner that will divert floating material to an area of low flow velocity for removal.
- 4. Do not place booms in areas where the flow rate is greater than 6 km/h as they will be ineffective in containing the spill. If the flow rate is too high, try to locate a more suitable containment location downstream. Refer to an Oil Spill Co-op Contingency manual for more information on this subject. Flow rates can be determined by measuring the time it takes for an object to float a known distance downstream. The use of elongated objects (such as sticks) may produce erroneous results (on the low side), as they tend to align themselves in the direction of the current, which allows water to slip past them.

Floating Spills

- 1. Materials that float on water such as oil, diesel fuel, or gasoline, if left to spread, may have serious environmental implications. The rate and direction at which such a spill will spread is dependent on wind, currents, and rate of flow. Spills into stagnant water bodies are generally affected by wind currents and can spread to form complex configurations making containment more difficult. Spills into watercourses such as rivers or streams are often more difficult to handle. Materials may be transported considerable distances by the stream flow before they are contained. High rates of flow or large debris being transported by the stream (i.e., ice, logs, and branches) may damage floating booms or render boom deployment ineffective. It is essential that immediate containment and clean-up be initiated for floating spills in order to limit adverse environmental affects and to reduce clean-up costs.
- 2. Floating debris in the stream course should be removed or contained upstream. This will prevent floating booms that are located downstream from being damaged and reduce the potential for clogging or damage of skimming or vacuum equipment.
- 3. Accumulated spill material should be removed by vacuum truck, skimmers, trash pump, or suitable absorbents as quickly as possible.

Floating Spills Under Ice

- 1. Oil spilled under ice will collect in pockets. In stagnant water bodies, oil will concentrate near the spill area. Holes should be drilled into these pockets and the oil removed by suction equipment.
- Oil spilled under ice that has formed over moving water is best recovered by constructing an ice slot or trench angled to the stream bank. Oil should be removed by suction equipment on a continual basis to prevent buildup and escape.
- 3. If ice is too thin to support men or equipment, holes can be formed by dropping large inanimate objects using a helicopter (which requires prior approval from Environmental Regulatory Authority).

Insoluble Liquids Denser than Water

- 1. Materials that are heavier than water and do not dissolve, such as oily sludges or heavy oils, present unique problems when spilled into water bodies, rivers, or streams. These materials tend to flow and accumulate in low spots due to their greater density. Because they do not dissolve, contaminants can mix with bottom sediments and damage these shallow nutrient rich zones. The spread of these types of spills is dependent on such factors as bottom relief, currents, and flow rate. Containment and clean-up of such spills can be difficult, depending on site-specific factors. Speed and effectiveness of containment and clean-up procedures are critical in reducing the negative impacts associated with these types of spills.
- 2. Oil Spill Co-op Contingency manuals should be referred to for the most appropriate method of containment and clean-up when dealing with a specific type of spill.
- 3. If the material has entered a water body or watercourse, natural low areas into which the material will flow and accumulate, should be identified.

2025 Section 7.0 Page 32 of 65



- 4. Natural low areas should be pumped free of spilled material. Any contaminated bottom sediments should be transferred by vacuum lines to corresponding holding tanks. Sediments can then be removed to an appropriate disposal or reclamation facility.
- 5. Dredging low areas to accumulate spilled material in fast flowing watercourses should only be done when determined necessary, and upon proper authorization from Environmental Regulatory Authority.
- 6. Construction of a dam or dam system downstream, and diversion of upstream flow should be done only when determined necessary, and upon proper authorization from Environmental Regulatory Authority.

Soluble Chemical Spills into a Water Course

- 1. Chemicals that dissolve in water, such as "caustic" and other process chemicals, can result in serious environmental impacts when spilled into water bodies. Depending on the toxicity and concentration of the substance, local water quality could be severely affected, and downstream users placed at considerable risk. Once incorporated in the aqueous environment, tracing these contaminants can be difficult. Wind, currents, flow rate, and sometimes bottom relief influence the spread of contaminated water. It is imperative that all reasonable effort be made to prevent soluble chemicals from entering water sources, and land-based clean-up operations be initiated immediately. If spilled chemicals do enter a watercourse, a quick and effective response will help to limit the environmental impact.
- 2. Immediate notification should be given to the appropriate Oil Spill Co-ops, Regulators, and the affected landowners to ensure public safety and an expeditious clean-up operation.
- 3. Oil Spill Co-op Contingency manuals should be consulted for the most effective method of containment and clean-up method for particular spills.
- 4. Clean-up of the spilled material should be initiated immediately in order to minimize the area affected and the degree of environmental impact.
- 5. If chemicals have entered the watercourse, a dam should be constructed downstream from the spill site. If possible, water upstream of the spill should be diverted upon proper authorization from Environmental Regulatory Authority.
- 6. If damming and diversion are not feasible, then an accepted method for in-situ treatment of the contaminated water should be considered (i.e., activated carbon absorption, precipitation, neutralization, etc.).

Procedures for Obtaining Initial Soil Samples After a Spill

Sample Labelling and Storage

- 1. Store samples below 4°C and send them to the laboratory within 48 hours of sampling.
- 2. Clearly label all samples with the:
 - company name
 - well name/location
 - dates
 - sample location
 - unique sample identifier number, and
 - the name of the person who obtained the sample.
- 3. Store samples for transport in a secure travel container (i.e., a cooler).
- 4. In summer months pack the cooler with some frozen ice packs or ice to keep the samples below 4°C.
- 5. Wrap samples kept in glass jars individually in "bubble wrap" prior to packing in the cooler.

Laboratory Details

- 1. A chain-of-custody (CoC) or laboratory supplied Analysis Request Form should be completed and sent with the samples.
- 2. Ensure that all of the samples being sent to the lab are documented on the form, and that the proper analyses are requested for each sample.
- 3. Ensure that the required turnaround time for results is indicated. Normally these forms are in triplicate.
- 4. Retain one (1) copy for filing and send the other two (2) copies along with the samples.

2025 Section 7.0 Page 33 of 65



- 5. The laboratory should be instructed to sign the CoC form when the samples are received and send one (1) of the copies back to confirm that they received the samples.
- 6. Keep both copies of the CoC form on file.
- 7. The laboratory will supply the sample containers, labels, CoC/Analysis Request forms, and the shipping container.

7.18 Electrical Incident Response

If an electrical incident occurs the NorthRiver Midstream Emergency Management Program requirements will be followed.

- "Calling the Alert" is the first requirement, call 911!
- The following emergency response procedure is recommended:
 - 1. Evacuate away from the area where the electrical incident occurred, assess the situation, and ensure there are no continuing hazards to yourself or others.
 - 2. Sound the alarm, alert other personnel.
 - 3. Call for help, call 911 and then notify the Supervisor.
 - 4. Assess the hazards don't rush in to initiate rescue. Only complete an electrical incident rescue if you are authorized and competent to complete the rescue safely.
 - 5. Secure the area, treat all electrical equipment as energized. If you are authorized to do so turn off the electrical power supply (e.g., for high voltage power distribution equipment ≥1001V you may not be authorized and/or competent to operate the isolation device), isolate and lock out the electrical source following established electrical safe work procedures. If you cannot turn the power off, then assess if you can safely rescue using a hot stick. If a hot stick is not available, are rubber insulating gloves available?
 - 6. Initiate rescue, when it is confirmed safe to do so, rescue the injured worker.
 - 7. When the injured worker has been removed to a safe area begin first aid if properly trained. If the injured worker is unconscious or breathing is erratic monitor closely. If breathing stops apply artificial respiration immediately.
 - 8. Don't leave the injured worker unattended.
 - 9. If the injured worker is burned do not touch the injured worker's affected area or apply any lotions or gauzes.
 - 10. Confirm emergency services have been dispatched.
 - 11. The Supervisor or HSE will follow up, ensuring government/regulatory agencies have been notified as required.
 - 12. The Supervisor or HSE will complete an incident report.

Workers exposed to electrical hazards are to be trained in methods of release of victims from contact with exposed energized electrical conductors or circuit parts. This should include emergency isolation procedures. Electrical Workers shall also receive regular training in methods of first aid, CPR and use of an AED (if they are available).

Only those workers authorized to do so should undertake electrical incident emergency response rescue. If a worker is unsure of what to do, they shall wait until the authorized worker arrives at the scene.

Never attempt to rescue a victim of an electrical incident without de-energizing the electrical system first or suitably protecting the person that would attempt to rescue the victim!

7.18.1 Methods of Contact Release for Electric Shock

When a worker is exposed to an electrical shock hazard the first responder to the electrical incident shall follow the NRM emergency response plans. When assessing if the first responder can rescue, they must protect themselves from been shocked by following approved methods of contact release:

1. As a priority if the first responder is trained and authorized, they shall turn off the power to the electrical equipment. In many cases the isolation device may not be accessible quickly and the following two methods of contact release can be utilized. Using an insulating hot stick (e.g., shotgun, fixed length,

2025 Section 7.0 Page 34 of 65



telescopic or rescue) remove the worker that has been shocked to a safe location. Apply first aid and CPR

2. Don rubber insulating gloves and using a modified grab pull the worker that has been shocked to a safe location. Apply first aid and CPR.

If the first responder cannot adequately protect themself, they shall make safe the incident scene until someone arrives at the incident scene that can implement appropriate contact release.

7.18.2 Over Head Power Lines & Buried Cables

When an overhead power line or buried cable incident has occurred no emergency responder will take action to rescue until the Electrical Utility has advised that the power has been turned off.

The rescuer must stay back at least 10 metres and advise anyone remaining in a vehicle that has contacted an energized overhead power line or buried cable to remain calm and remain in their vehicle. If the vehicle catches on fire from contact with an overhead power line the rescuer can provide instructions to anyone in the vehicle to get out the vehicle without contacting the vehicle and the ground at the same time. After the person exits the vehicle, they should be instructed to shuffle away from the vehicle keeping their feet as close together as possible until they are at least 10 metres away from the vehicle.

7.19 General Fire Response

Extinguish fires and protect property impacted from fire without putting responders at risk. Control or eliminate product release and extinguish ignition sources to prevent a fire or explosion.

- Shut-in source (if safe to do so).
- Ensure personal safety.
- Call emergency services as required 911 Police, Fire, or Ambulance.
- Conduct a risk assessment.
- Determine the level of emergency.
- If practical, implement a fire attack strategy to extinguish fire or cool equipment/facilities from the fire
- Order resources such as water tanker, local fire department equipment and/or fire response contractor to assist in the response.
- Implement off site monitoring for LEL, hazardous gas and/or smoke particulates.
- If the public is at risk from smoke or hazardous gas, implement a public communication and protection plan.
- Make the appropriate notifications.
- If safe to do so, remove ignitable products from the fire scene.
- Consider off-site fire hazard conditions (dry vegetation, etc.) and implement a response plan to prevent the spread of the fire.
- Maintain ICS 214 Activity Log.
- Restrict access to site.
- Preserve the site so that a follow-up investigation can be conducted.
- Participate in debriefing and share learning.

2025 Section 7.0 Page 35 of 65



7.19.1 Volunteer Fire Personnel

Company personnel can only expect the volunteer fire department to assist with public safety issues (road closures, grass fires, fire containment).

The Company can assist volunteer fire departments by providing a list of fire detection equipment on-site: high level shutdowns, call out alarms, personnel response times to alarms, and basic fire suppression on lease.

Operators should be trained to shut-in any sources of fuel and conduct reasonable and prudent fire suppression when it is safe.

Volunteer fire departments have a duty to provide an adequate level of public safety services such as rescue, fire suppression, and first aid. Keep in mind the level of training that the volunteers have and the type and condition of their equipment. Do not expect them to attempt fire suppression in unsafe conditions with inappropriate or inadequate equipment.

If you have any question of what types of services your volunteer fire department can supply, feel free to contact them and ask.

7.20 Facility Fires

7.20.1 Facility Fires Safety

- Ensure effective evacuation and identification of trapped and/or missing workers.
- Establish response zones and PPE requirements.

The conducting of rescue operations, product isolation or fire suppression operations during facility fire events are restricted to:

- Activities that are consistent with the experience and reasonable capability of the utilized personnel.
- Activities within the level of training and PPE utilized by the personnel involved.
- Activities that are deemed consistent and appropriate for the scale of the fire event and the conditions present.

All operations must be evaluated relative to their risk potential vs. the benefit to be gained:

- The gain that may be achieved.
- Versus the potential exposure to risk that may or will be present.

Pressurized fuel fires that contain heavier than air components (typically all liquids) pose a significant risk to personnel in the event that the fire is extinguished.

Lighter than air fuels (typically natural gas) pose a significant risk if extinguished inside a closed space e.g. compressor building.

In all cases, personnel shall not be committed to operations or locations that may expose them to any of the following hazardous conditions (this includes the direct positioning, the proximity positioning or the positioning of personnel in locations that may create an exposure to incident escalation, fire growth or event escalation):

- Direct fire contact.
- Heat exposure.
- Smoke and products of combustion.
- Areas of diminished oxygen content.
- Confining or restrictive spaces.
- Locations in proximity to buildings or structures that have been weakened by fire exposure, heat exposure or significant water application.



7.20.2 Action Plan for Facility Fires

- Conduct an assessment to identify all the hazards, conditions, and facets of the event.
- Call for additional internal and external resources as required.
- Develop the Incident Action Plan.
- Initiate remote isolation where facility/local isolation is not possible.
- Close Site Retention Basin outlet valve where applicable.
- Do not direct fire suppression operations where run-off may cause environmental damage.
- Initiate Unified Command with emergency responders; ensure safety guidance is reviewed and adhered to before commencing response operations.
- Execute Incident Action plan.

Conduct an Extensive Assessment

Gather event information to identify all the hazards, conditions and facets of the event, including but not limited to:

- Location of the fire and the areas involved in fire.
- Location and accountability of all personnel rescue requirement.
- Type of fuel involved.
- Source of the fuel.
- Wind direction.
- Critical escalation potentials BLEVE potential, chemical fire, catastrophic failure, high valve assets.
- Fire growth exposures.

Call for additional resources as required

Inventory personnel, fire suppressant resources (fire extinguishers, water supplies) and fire suppression appliances.

- Identify the resources required and not present on scene.
- Request the resources required.

Establish Response Zones

Establish Response Zones and the PPE requirements per zone.

- No Entry Zone perimeter.
- Emergency Planning Zone perimeter and PPE requirement.

Develop the Incident Action Plan

Develop the Incident Action Plan consistent with appropriate event management priorities:

- Rescue or protection of life.
- Protection of critical escalation potentials.
- Protection of uninvolved structures, machinery or assets.
- Confinement of fire to currently involved locations.
- Extinguishment of fire.

The Incident Action Plan once developed shall identify:

- Incident objectives.
- Strategies.
- Safety.
- Weather.
- Resource allocation.
- Critical support requirements.

Brief Personnel

Brief site personnel to identify the parameters of the incident and to set initial expectations with regard to safety and assignments. Identify:

Assessment information.



- Response Zones and PPE requirements.
- Incident Action Plan.
- Provide personnel assignments.

Ensure Critical Command Issues are established

Ensure any fire event activities conducted must be done so with the following critical emergency event command issues fully established and in place prior to initiating any proximity operations:

- An organized ICS deployment structure.
- An effective communication system.
- An established personnel accountability system.
- A risk versus benefit-based Incident Action Plan.
- Identified strategies, tactics and operational applications to support the Incident Action Plan.
- The presence and full availability of all required resources.
- A comprehensive air management system to control SCBA operations.
- Resource allocation providing a 2-man team appropriately equipped and supported to protect, maintain and ensure the safe egress route of every 2-man proximity team.

Execute the Incident Action Plan

- Conduct, direct, monitor and adjust the application of the Incident Action Plan.
- Re-evaluate the appropriateness of the Incident Action Plan and its strategies, tactics and operational applications.
- Ensure adherence to appropriate event management priorities.
- Re-evaluate the resource requirements of the event.
- Ensure the completion and adherence to the critical command issues.

7.21 High Vapour Pressure (HVP) Release

7.21.1 HVP Product Release Monitoring

Monitoring may occur downwind or upwind depending on how the plume is tracking, with priority being directed to the nearest un-evacuated residence or areas where people may be present.

The licensee is expected to provide monitored HVP product LEL information on a regular basis throughout the emergency to the environmental agency, the Regulatory Authority, local health authority, and other local authorities and on request to the public.

Air Quality Monitoring equipment will be used to:

- Track the plume.
- Determine if ignition concentration criteria are met.
- Determine whether evacuation and/or sheltering concentration criteria have been met, particularly beyond the EPZ.
- Assist in determining when the emergency status can be downgraded.
- Determine roadblock locations.
- Determine concentrations in areas being evacuated to ensure that evacuation is safe.

The type of air quality monitoring units and the number of monitors required are based on site specific information, including:

- Access and egress points.
- Population density and proximity to urban density developments.
- Local conditions.

NorthRiver will dispatch mobile air quality monitoring equipment from contract service companies located in the area to monitor and record air quality.

2025 Section 7.0 Page 38 of 65



Ambient air quality data from the monitoring unit(s) will be communicated by cell phone or mobile radio to the On-Site Command Post.

If a sour gas release has been ignited, the permit holder should continue to monitor response zones for H₂S from incomplete combustion as well as SO₂.

7.21.2 Ignition Considerations

Company and Contract Operators should be familiar with the guidelines for igniting a high vapour pressure release. ERP procedures should be reviewed as part of a pre-job safety meeting whenever work begins on or near HVP pipelines or wells.

The following items must be considered:

- **Immediate Ignition:** If Company personnel are on-site when a release occurs, and a qualified company representative is present they may ignite the release.
- Delayed Ignition: If Company personnel are not on-site when a product release occurs a vapour plume may form.

The following items should be considered before ignition:

- Has the perimeter of the EPZ been established?
- Have all persons been evacuated from the area?
- Will ignition worsen the situation by endangering the environment, public, private property, equipment or facilities?
- Has the wind direction been established and is it being continually monitored?

Following an initial assessment, the Incident Commander must decide if plume ignition is a viable option. Once ignited, the dangers inherent with the vapour cloud are eliminated. The Response Team should prepare for potential problems as a result of ignition by placing fire fighters on standby.

If trees, buildings, or any obstructions are in the product plume, these items may ignite explosively. All people should be moved to a safe distance.

Controlled ignition eliminates the potential of vapours finding an unsuspected ignition source. Typical issues that may affect high vapour pressure releases include:

- Time of release (day, night, weekend).
- Injuries requiring medical attention.
- Identification of the release boundaries.
- Estimate product volume and plume size.
- Wind direction and speed.
- Topography.
- Vegetation.
- Road access.

7.21.3 Guideline for Igniting HVP Plume

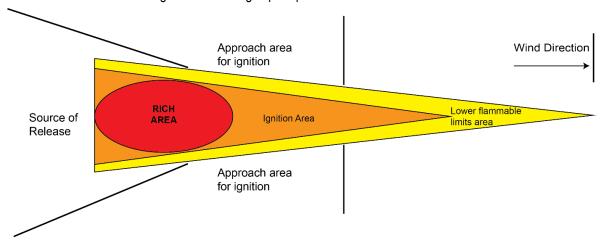
The following steps are a guideline to igniting a high vapour pressure plume:

- 1. Conduct a complete assessment that includes the identification of the plume perimeter.
- 2. Take steps to prevent injury including evacuation (if necessary) and the protection of the response team.
- 3. Approach wearing flame resistant clothing, eye protection, hard hat and a flammable gas detector.
- 4. Approach the plume from up-wind and slightly cross wind (as there is a greater area of the plume to hit with a flare).



Refer to figure below

- Stop 200 metres (minimum) from the suspected perimeter of the vapour plume.
- Remember that the flammable perimeter may extend beyond the visible portion of the plume.
- Remember that the heat affected zone extends beyond the flammable perimeter.
- Test for flammable vapour in the atmosphere using a flammable gas detector.
- Use the manufacturer's procedures for loading the flare shell and always point the pistol or launching device at the ground during loading (and until fired).
- Ensure that you begin outside the defined hazardous area.
- Attempt to hit the perimeter of the vapour cloud where the air to fuel mixture is correct for ignition (near outer edge and ground level).
- If no ignition takes place it can be assumed that the flare did not pass through the flammable vapour range of the plume.
- Make the appropriate trajectory adjustments and shoot again. Proceed in this manner until ignition is accomplished.
- Upon ignition, proceed with preventative steps to control unwanted fire.
- Do not extinguish the burning vapour plume.



7.22 Pressurized Fuel Fire

The Company strategy is to isolate the fuel, remotely if practical, while protecting exposures (compressor buildings, forests, etc.) and controlling any damage to the environment.

Where local/direct isolation is to be undertaken, the appropriate safety requirements are to be met e.g. responders trained in pressurized fuel firefighting tactics.

- Pressure fires must not be extinguished unless immediate isolation is assured (typically with a dry chemical extinguisher), as the resulting gas release will endanger personnel.
- Pressurized fuel fires with liquids may involve a ground fire, potentially with burning liquids raining down. Suppressing these fires with water streams could result in run-off that causes environmental damage.
- Where the fuel is sour, some portion of the SO₂ emitted from the fire can be knocked down by the use of water sprays. The benefit must be weighed against the potential environmental damage of entrained SO₂ in the run-off i.e. run-off may require collection and neutralization.
- Typically, pressure fires can be quenched with water streams without fear of extinguishment. As
 depressurization occurs, caution needs to be exercised that the fire is not extinguished, which
 would lead to flammable vapours being released into the incident area.

2025 Section 7.0 Page 40 of 65



7.23 Propane or LPG Tank Fire

The Company strategy is to evacuate as far as possible, as soon as possible; up to the distances recommended below. Many factors affect the failure time of a propane tank and as such are outside the expertise of non-professional responders. Site personnel are to assume a catastrophic tank failure is imminent (e.g. > 5 minutes) regardless of the tank size.

Evacuation distances are based on predicted fire ball and fragmentation areas as expressed by the radius of the fire ball and based on size of the propane tank.

- Recommended evacuation for a propane tanker truck is 1.6 km (1 mile) in all directions.
- Recommended evacuation for a small propane tanker truck is 1,000 m (2/3 mile) in all directions.
- Recommended evacuation for a 500-lb tank is 350 m or 1,200 feet in all directions.
- Recommended evacuation for a 100-lb Tank is 200 m or 650 feet in all directions.
- Recommended Evacuation for a 20-lb Tank is 150 m or 500 feet in all directions.

7.23.1 Boiling Liquid Expanding Vapour Explosion (BLEVE)

A BLEVE occurs when a sealed container of liquefied gas (e.g. propane tank) is accidentally exposed to and enveloped by fire. The internal pressure of the containment vessel rapidly rises. At the same time, the container wall temperature rises, and the wall strength deteriorates. Even though a pressure relief valve may be operating, the stress applied by the increased pressure exceeds the strength of the containment wall.

The container eventually ruptures, and extremely heated liquid is released, expands and vaporizes in seconds resulting in catastrophic damage, as well as the spread of ignited vapours. The ruptured vessel or tank could propel dangerous shrapnel significant distances.

It is important that vessels or tanks are kept cool, and the external fires extinguished quickly with water sprays or natural fluoroprotein-based foams.

Propane is naturally in the gaseous phase with a boiling point of -42° C (-44° F). One gallon of liquid propane will expand to 270 gallons of propane gas.

- Isolate spill or leak area immediately.
- Stay upwind, and out of low areas.
- Eliminate all ignition sources.
- All equipment used when handling the product must be grounded.
- Do not walk through spilled material.
- Keep unauthorized personnel away.
- If required, wear positive pressure self-contained breathing apparatus.
- Do not extinguish a leaking gas fire unless leak can be stopped.

7.23.2 How big is the fireball from a Propane or LPG BLEVE?

If the propane or LPG release is ignited immediately then a fireball will result. The size of the fireball depends on the mass of the tank contents at the time the tank fails. The shape of the fireball depends on how the tank fails and on the lading temperature. LPGs include the following flammable gases: Butane UN1011, Butylene UN1012, Isobutylene UN1055, Propylene UN1077, Isobutane UN1969 and Propane UN1978.

If we consider a spherical fireball, then an approximate equation for the fireball maximum radius is:

Rfireball = 3m^{1/3}
where,
Rfireball = radius of fireball in metres
m = mass of propane in kg



However, keep in mind that fireballs are not always spherical. In some cases, when the tank fails a large ground fire can result that has a radius larger than that predicted above. Don't assume if you are just beyond the predicted fireball radius that you will be outside of the fire envelope.



Fireball sizes and durations for a range of tank sizes

WARNING

The data given are approximate and should only be used with extreme caution. These times can vary from situation to situation. LPG tanks have been known to BLEVE within minutes. Therefore, never risk life based on these times.

BLEVE (USE WITH CAUTION)

Capacity D		Diam	Diameter		Length		Propane Mass		Approx. time to empty for engulfing fire	Fireball radius		Emergency response distance		Minimum evacuation distance		Preferred evacuation distance		Cooling water flowrate	
Litres	(Gallons)	Meters	(Feet)	Meters	(Feet)	Kilograms	(Pounds)	Minutes	Minutes	Meters	(Feet)	Meters	(Feet)	Meters	(Feet)	Meters	(Feet)	Litres/min	US gal/min
100	(26.4)	0.3	(1)	1.5	(4.9)	40	(88)	4	8	10	(33)	90	(295)	154	(505)	307	(1007)	97	26
400	(106)	0.61	(2)	1.5	(4.9)	160	(353)	4	12	16	(53)	90	(295)	244	(801)	488	(1601)	195	51
2000	(528)	0.96	(3.2)	3	(9.8)	800	(1764)	5	18	28	(92)	111	(364)	417	(1368)	834	(2736)	435	115
4000	(1057)	1	(3.3)	4.9	(16.1)	1600	(3527)	5	20	35	(115)	140	(459)	525	(1722)	1050	(3445)	615	163
8000	(2113)	1.25	(4.1)	6.5	(21.3)	3200	(7055)	6	22	44	(144)	176	(577)	661	(2169)	1323	(4341)	870	230
22000	(5812)	2.1	(6.9)	6.7	(22)	8800	(19400)	7	28	62	(203)	247	(810)	926	(3038)	1852	(6076)	1443	381
42000	(11095)	2.1	(6.9)	11.8	(38.7)	16800	(37037)	7	32	77	(253)	306	(1004)	1149	(3770)	2200	(7218)	1994	527
82000	(21662)	2.75	(9)	13.7	(45)	32800	(72310)	8	40	96	(315)	383	(1257)	1435	(4708)	2200	(7218)	2786	736
140000	(36984)	3.3	(10.8)	17.2	(56.4)	56000	(123457)	9	45	114	(374)	457	(1499)	1715	(5627)	2200	(7218)	3640	962

Emergency Response Guidebook

U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, Transport Canada, Secretariat of Transport and Communications, 2024



Safe Standoff Distance

Liquefied Petroleum Gas (LPG – Butane or Propane)	Threat Description	LPG Mass/	Fireball I	Diameter ²	Safe Distance ³			
	Small LPG Tank	20 lbs/ 5 US gal	9 kg/19 L	40 ft	12 m	160 ft	48 m	
	Large LPG Tank	100 lbs/ 25 US gal	45 kg/95 L	69 ft	21 m	276 ft	84 m	
	Commercial/ Residential LPG Tank	2,000 lbs/ 500 US gal 907 kg/1 893 L		184 ft 56 m		736 ft 224 m		
	Small LPG Truck	8,000 lbs/ 2,000 US gal	3 630 kg/7 570 L	292 ft	89 m	1,168 ft	356 m	
	Semi tanker LPG	40,000 lbs/ 10,000 US gal	18 144 kg/37 850 L	499 ft	152 m	1,996 ft	608 m	

¹ Based on the maximum amount of material that could reasonably fit into a container or

Adapted from: Emergency Response Guidebook

U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, Transport Canada, Secretariat of Transport and Communications. 2024

7.23.3 Fire Fighting a BLEVE

Fire fighters should do the following:

- Fight the fire from the maximum distance possible. If possible, use unmanned equipment such as a fixed fire monitor (deluge gun) or a ground fire monitor. These pieces of equipment are used to direct up to 7500 litres per minute onto a vessel or facility.
- Cool the container by flooding it with large amounts of water. Continue to cool after the fire is out.
- Do not direct water at the source of leak or at the pressure relief device (icing may occur).
- Leave the area immediately if you hear venting from the safety device or see discoloration of the tank.

7.24 Transportation Incident

7.24.1 Transportation Incident Safety

- Intervene to initiate the development of a safe and static incident scene.
- Identify the current and immediate hazards within the incident scene.
- Identify any hazards outside of the incident scene created by the accident.
- In the event of incidents involving or damaging electric service poles or transformer vaults:
 - Remain back an absolute minimum distance of 9 metres (30 feet) in all directions.
 - Restrict access to the area, permitting no entrance regardless of the need.
- In the event of uncontrolled fuel releases:
 - Restrict access and evacuate personnel from areas where an ignition and/or fire exposure is possible.

7.24.2 Action Plan for Transportation Incident

- Call 911.
- Establish roadway notification of the emergency incident.
- Survey the accident site from a safe distance and attempt to identify hazards.
- Isolate any present controllable hazards within the incident scene.
- Secure the incident scene and vehicles depending upon severity of incident (e.g. fatality).
- Assess and treat the injured, within level of training.

2025 Section 7.0 Page 44 of 65

² Assuming efficient mixing of the flammable gas with ambient air.

³ Determined by U.S. firefighting practices wherein safe distances are approximately 4 times the flame height. Note that an LPG tank filled with high explosives would require a significantly greater standoff distance than if it were filled with LPG.



Notify TDG if accident involves Dangerous Goods.

Identify the Accident Site to Roadway Users

- Utilize vehicles and or barriers to identify the roadway hazard and create an exclusion zone to prevent further accident occurrence:
 - Position a vehicle far enough back from the incident site, in both directions, such that on coming roadway users have the opportunity to identify the hazard and slow down to a safe stop.
 - Engage hazard lights of positioned vehicles.
 - Place additional vehicles in closer proximity to protect the incident scene from additional vehicle contact.
- Position traffic cones or road markers, as are available, to identify the accident site.
- Utilize accident bystanders who are uninvolved and uninjured to take positions safely off the
 roadway in high visibility vests close to the perimeter vehicles to wave down oncoming traffic
 alerting them to an incident scene.

Perform an Outside Accident Site Survey

- Survey the accident site from a minimum 9 metres (30 feet) safe distance, identifying all hazards outside of the accident site including:
 - Damaged utility poles.
 - Ground level power transformer vaults.
 - Any additional vehicles involved and not initially identified.
 - Location of injured; involved and uninvolved persons.
 - Discharged vehicle or transported fluids or materials.
 - o Identify the discharge of gasoline or diesel fuel.
 - o Identify any waterways or sources of fluids that could enter sewers etc.
 - Suspended loads or vehicles precariously positioned.

Perform an Inside Accident Site Survey

- Survey the incident scene within the 9 metres (30 feet) perimeter identifying all hazards inside the incident scene while maintaining a safe distance from any identified hazards including:
 - Damaged utility poles.
 - Ground level power transformer vaults.
 - Any additional vehicles.
 - Location of the injured.
 - Discharged vehicle or transported fluids or materials.
 - Suspended loads or vehicles precariously positioned.

Any tampering and/or altering of a vehicle's original position and/or controls (e.g. putting in park or out of gear, moving debris, letting air out of tires, etc.) should be documented and provided to investigators in order that investigation findings are not compromised (preferably with before and after photographs).

Stabilize the Accident Site

- Identify and restrict access to areas of uncontrollable hazard.
- Attempt to access each vehicle individually, assessing to ensure vehicle(s):
 - o Ignition system is disengaged.
 - Automatic transmissions are in the "park" position.
 - o Manual transmissions are in neutral gear, once the ignition is disengaged.
 - Parking brakes are engaged.
- Where access to the vehicle is not possible to secure the vehicle in a disengaged position:
 - Place larger debris or available materials under the wheels to provide a makeshift wheel block.
 - If possible, mark the location of vehicle component debris prior to moving, as this will assist any required investigations.

2025 Section 7.0 Page 45 of 65



- If materials are not present to provide wheel blocking, pull the valve stems of each tire to secure the vehicle and document for investigators.
- Control any hazardous condition as is possible:
- Dilute or suppress fuel leaks.
- Identify exclusion zones due to uncontrollable hazards.

Triage and Treat the Injured Personnel

- Provide medical treatment only within level of training.
- Identify the location and injuries sustained by each individual involved in the accident.
- Remove persons slightly injured, uninjured or uninvolved from the immediate accident site to a safe controlled holding location away from any hazards of the accident site and on-coming roadway traffic.
- Protect in place any injured persons found within the vehicles.
- Gather uninjured personnel from the scene to assist with medical treatment as is available.
- Assess the safety of field medical treatment in the position found:
 - Where the injured person's safety is threatened, they may be moved to prevent further significant injury.
- Identify and prioritize the injury treatment based on criticality of need.
- Ensure qualified personnel provide medical treatment within prioritized medical aid protocols.
- Treat for shock.
- Closely monitor the injured until relieved by arriving emergency responders.

Meet and Brief Emergency Responders

- Position personnel to meet and direct emergency responders to the accident site.
- Provide a scene safety and hazard briefing.
- Identify the number of injured.
- Identify the location of the injured and from which vehicle they belong.
- Identify the initial position found and condition of each of the injured.
- Identify the injuries sustained by each victim.
- Identify the medical treatment provided.
- Provide personal information on each victim as is available.
- Monitor the safety of the scene.
- Assist emergency responders within ability and level of training.
- Gather information regarding the medical treatment provider, the transport provider and the destination of medical treatment center.

7.25 Product Transportation Incident

The first priority of a product transportation incident is to protect the driver and the public from risk as well as containing and preventing the product from impacting the environment.

If a transportation incident involves propane, see BLEVE requirements.

The party in charge or control of the product (carrier) is responsible to remedy the dangerous occurrence. However, the ultimate responsibility remains with the Company (shipper). Products that may be shipped include produced water or higher risk Liquefied Petroleum Gas (LPG).

Response actions include:

- On public roadways, the Company will not assume the on-site command but will act on behalf of local police to respond to the incident.
- Notify/activate police and report incident.
- If applicable, Implement ERAP by contacting Emergency Response Assistance Canada, see Section 9 Federal Government Support Agencies.
- Notify Transportation of Dangerous Goods Spill Department and provide the following information:
 - Location of incident and directions to site.
 - Name and contact number.

2025 Section 7.0 Page 46 of 65



- On-site response actions implemented.
- Type of vehicle involved.
- Type of container(s) involved and volumes.
- o Type of Dangerous Goods or environmentally sensitive products involved and volumes.
- o Copy of Safety Data Sheet (SDS).
- Secure the incident scene from on-coming traffic.
- Provide medical aid to the driver and passengers involved in the incident.
- If possible, interview the driver and review the manifest for products, volumes and carrier company name.
- Review SDS with the Emergency Response Guidebook for product hazards, PPE requirements, response action and public protection measures.
- Assess the container integrity and secure the leak (if safe to do so).
- Respond to public safety by reviewing the public protection plan.
- Contain and clean up spilled product.
- Keep a log of the time and sequence of events.
- Record information on a Company incident report form.
- Stay at site until relieved by additional Company personnel (if required).
- Restrict access to the site immediately and preserve site for follow-up investigations.
- Clean up and repair as directed by the Incident Commander.



7.26 Hazardous Materials Incident

7.26.1 Hazardous Material Safety

- Ensure the safety of site personnel and the public.
- Assess the potential exposure to human life.
- Assess the harm created by exposure to human life.
- Restrict the access to areas of potential exposure.
- Ensure the hazards associated with any product release are fully communicated.
- Activate emergency response agencies.
- Establish a safe incident scene.
- Decontaminate exposed personnel.

7.26.2 Action Plan for Hazardous Material Incident

- Identify the released material.
- Assess the hazard associated with the release.
- Identify any environmental impacts.

Initiating Incident Response

- Notify local emergency response agencies.
- Notify Company management.
- Establish a safe incident scene perimeter.
- Secure and restrict access to the area.
- Contain persons requiring decontamination.
- Evacuate persons from the area.
- Designate a holding area for evacuees.
- Identify safe access routes and communicate clearly and promptly to the responding agencies.
- Identify appropriate staging locations.
- Account for all personnel:
 - Number of persons involved.
 - Injured persons.
 - o Injured employees.
 - Injured contractors.
 - Injured public.

Decontaminate Exposed Personnel

- Identify, contain and hold exposed personnel requiring decontamination in a safe location.
- Provide decontamination by removing clothing and thoroughly rinsing with large volumes of water.
- Control the runoff of the decontamination water.
- Remove person's clothing and shelter in a safe isolated location.
- Medically treat exposed personnel as is possible and only as trained.

Identify the Released Material

- Identify the material carrier.
- Identify vehicle number.
- Identify the trailer number(s).
- Identify the placard number.
- Acquire the shipping papers reference number.
- Identify the SDS reference number.
- Reference the CANUTEC Emergency Response Guide.
- Reference the AAR Guide, if applicable.

2025 Section 7.0 Page 48 of 65



Assess the Hazards Associated with the Release

- Inhalation.
- Flammability.
- Toxicity.
- Water reactivity.
- Contact exposure hazard.
- Organic reactivity.

Evaluate the Release

- Identify the release type: static or dynamic.
- Maximum potential-volume of release.
- Current volume and rate of release.
- Outfall direction of the release.
- Identify the outfall exposure potentials.
 - o Public exposures.
 - Natural waterways.
 - High impact environmental outfalls.
 - Low impact environmental outfalls.
 - Natural containment characteristics.

Identify Environmental Impacts

- Identify the current weather and potential impacts:
 - o Temperature.
 - Chance of precipitation.
 - Wind conditions: strength and direction.
 - General grade of topography.
- Brief emergency responders on their arrival.
- Identify the medical treatment provider.
- Identify the receiving medical treatment center.

Meet and Brief Arriving Emergency Responders

- Position personnel to meet and direct emergency responders to the incident site.
- Provide a scene safety and hazard briefing.
- Identify the event timeline.
- Identify the released material(s) involved.
- Identify the hazards associated with the released material(s).
- Identify the personnel accountability.
- Identify the injuries present.
- Identify the chemical exposures present.
- Identify the decontamination procedures undertaken.
- Identify the environmental exposure and impacts.
- Identify the containment actions undertaken.
- Identify the current operational status of the facility.



7.27 Injury/Fatality

All personnel must be prepared to provide timely and effective response to preserve the health and safety of personnel injured due to an emergency event. Always consider the consequences and risks prior to taking response actions to assist a victim and providing medical assistance. Ensure that the rescuer does not become a victim.

If an incident involving equipment results in the death of a worker, the person who is in charge of the equipment must ensure the site of incident is not disturbed, unless:

- Protecting the health and safety of other personnel.
- Aiding an injured person involved in an incident.
- Taking essential action to make the scene safe or to prevent a further occurrence of the incident.

The On-Site Group Supervisor has the obligation to preserve the site intact until:

- An OHS inspector or police officer arrives at the site of incident.
- Or an OHS inspector or police officer directs otherwise at the time of notification.

7.27.1 Serious Injury/Fatality Safety

- Assess the incident site for hazards, consider the following hazards before proceeding to the victim:
- Hazardous gases (H₂S, carbon monoxide, etc.).
- Electrical.
- Uncontrolled pressure.
- Unsecured mechanical.
- Liquid.
- Fire and explosion.
- Unsecured suspended loads.
- Other unsafe conditions.

If at any time the scene is deemed unsafe to enter:

- Do not enter or approach the victim.
- Responders are to immediately return to a confirmed safe area.
- Conduct any mitigating actions that are possible from a safe area.
- Wait for assistance if unsafe conditions remain.
- Identify the mechanism of injury and establish control mechanisms (water spray, electrical deenergizing, etc.).
- Identify the victims that will require decontamination prior to medical treatment.

7.27.2 Action Plan for a Serious Injury/Fatality

Identify the Emergency Event Occurrence

- Notify facility personnel of an emergency event occurrence.
- Sound a facility wide alert.
- Identify the location of the emergency event.
- Provide initial personnel actions to ensure their safety.

Direct Facility Personnel

- Communicate the presence of uncontrolled hazards to facility personnel.
- Provide direction to facility personnel for ensuring their safety.
- Specify and assign personnel to safe mustering positions.
- Identify the safe access routes from, or around, areas of hazard, to the safe mustering positions.
- Account for all facility personnel.

2025 Section 7.0 Page 50 of 65



Initiate External Emergency Response

- Call 911.
- Request medical aid and transport.
- Identify incident location.
- Provide a call back number.
- Provide basic injury information.
- Provide known event timeline.
- Identify hazards present.

Brief Personnel Tasked to Assist in Hazard Stabilization

- Current incident site conditions.
- Uncontrolled hazards.
- Hazard control priorities.
- Provide individual assignments.
- Identify personnel safety considerations during stabilization operations.
- Specify communication and coordination protocols for stabilization operations.
- Review critical considerations of individual tasks.
- Specify emergency evacuation plan.

Stabilize Hazards and the Incident Site

- Remove or control incident scene hazards.
- De-energize/safety equipment and power supplies.
- Isolate uncontrolled material releases.
- Remove sources of ignition.
- Lower elevated or suspended loads.
- Identify any areas of, or remaining scene hazards.
- Monitor, direct and coordinate stabilization operations.
- Monitor safety conditions in areas of stabilization operations.
- Monitor condition of and impact on the injured.
- Maintain effective communication with all intervening personnel.
- In the event that significant hazardous conditions remain uncontrolled, consider the activation and assignment of the Site Safety Officer.

Approach and Assess the Injured

- Approach the injured and check for signs of life.
- Confirm the total number of injured.
- Identify injuries present.
- Triage the injured: identify and prioritize the injury treatment based on criticality of need.
- Assess the safety of field treatment in the position found.
- Assess the ability or effectiveness of field medical treatment in the position found.
- Confirm the accountability of facility personnel versus known numbers on site:
 - Safe mustering position.
 - Tasked for stabilization.
 - Medical treatment.
 - o Injured.

Assess the Need for Chemical Decontamination

- Identify the need to decontaminate injured prior to initiating field medical treatment.
- Identify the chemical exposure.
- Reference applicable SDS.
- Contact the chemical manufacturer to obtain additional decontamination/ neutralization information.
- Contact Company Corporate Health to advise.

2025 Section 7.0 Page 51 of 65



Contact the Canadian Transport Emergency Centre (CANUTEC) for assistance.

Provide Field Medical Treatment

- Provide chemical decontamination/neutralization prior to initiating field medical treatment.
- Stabilize injured in position found if possible.
- In the event that the injured must be moved:
 - Mark the position found.
 - Create a sketch.
- Provide medical treatment only within level of training.
- Ensure qualified personnel provide field medical treatment within prioritized medical aid protocols.
- Closely monitor injured until relieved by arriving emergency responders.
- Maintain appropriate confidentiality of incident, medical and injured personal information.

Provide Company Management with Incident Notification

- Provide event timeline.
- Provide total number of injured.
- Provide names of injured.
- Provide specific injuries.
- Provide ages of injured.
- Provide employers of injured.
- Provide job description of injured.
- Provide contact information of injured.
- Provide current medical status.
- Identify field medical treatment provider.
- Identify medical transport provider.
- Identify receiving hospital trauma center.
- Provide next of kin contact information.

Meet and Brief Emergency Responders

- Position personnel to meet and direct emergency responders to the incident site.
- Provide a scene safety and hazard briefing.
- Identify the mechanism(s) of injuries.
- Provide an event timeline.
- Identify the number of injured.
- Identify the initial position and condition of each victim.
- Identify the injuries sustained by each victim.
- Identify the medical treatment provided.
- In the event of a victim chemical exposure:
- Identify any decontamination provided.
- Provide an SDS.
- Provide personal information for each victim.
- Assist emergency responders within ability and level of training.
- Monitor the safety of the incident site.
- Gather information regarding the medical treatment provider, the transport provider and the destination medical center, hospital or trauma center.

Special Considerations for Fatality Events

- The deceased must not be moved unless:
 - Doubt of death exists, or
 - Authorized/requested to do so by the medical examiner or designate.
- If the victim's injuries are obviously fatal no additional risk shall be taken to recover the body.
- The recovery of suspected fatalities does not take priority over the rescue of the living and incident control activities.

2025 Section 7.0 Page 52 of 65



- Scene preservation is critical lawful movement of a fatality is only permitted to rescue a person in danger or to establish area safety.
- Once the emergency event has been controlled, the area of a suspected fatality is to be cleared of all personnel and cordoned off.
- Institute a tracking log to account for all persons with access to the cordoned off area.
- Non-authorized pictures are prohibited.
- Police and OHS will attend to conduct investigations.

Provide Field Management of the Incident

- Isolate and maintain the incident site undisturbed until custody is handed over to the investigating agency.
- Re-evaluate the overall safety of the facility.
- Assess, monitor, and manage the individual condition of the uninjured facility employees.
- Interview witnesses to the incident, providing a written statement, immediately if possible, or delayed if the witness is physically or emotionally unable.
- Receive approval from Company management prior to re-establishing site operations.

7.27.3 Next of Kin Notification

If any personnel are seriously injured, missing or killed, it is the responsibility of the Incident Commander to ensure that NorthRiver provides prompt notification to a senior Company representative so that the immediate family can be notified as quickly as possible.

Next of Kin Notifications should be made in the following instances:

- A serious injury.
- A fatality.
- Instances where personnel may be involved in an emergency and are unharmed, but are not able to contact family members to advise of their status.

Death should never be declared by NorthRiver no matter how obvious. Death notifications are not to occur until a medical doctor or medical examiner with the local authorities has pronounced the casualty legally dead.

If the incident involves the death or serious injury of a member of the public, local police or RCMP will be contacted by the Incident Commander (or designate) and asked to identify and notify the next of kin.

Under no circumstances are the names of casualties or missing persons to be released to the public or media unless next of kin are notified and their consent is obtained.

Contractor Next of Kin Notification

If an employee of a contractor employed by NorthRiver is injured, the Incident Commander and a senior Company representative will ensure that the contractor's head office is notified. The Contract Company is responsible for their own employees' notification of Next of Kin. In the case where a contractor is a small operation, or with no office, NorthRiver will request that the RCMP or local police identify and notify the next of kin.

Employee Next of Kin Notification

If an employee or contract employee employed by NorthRiver is injured, a senior Company representative or the most senior company field representative known by the family will make Next of Kin notifications in conjunction with a Victims Services representative from the local police or RCMP detachment.

7.28 Air Ambulance

7.28.1 Command and Control

Air Ambulances are dispatched based on flight conditions, aircraft availability/capability and criticality of the injured. Once you believe that an air ambulance is needed, call the appropriate number identified in the Telephone Directory in this binder and provide:

2025 Section 7.0 Page 53 of 65



- Description of the patient's condition.
- Severity of injury.
- Type of injury.
- · Level of consciousness.
- Exposure to hazardous materials.

If possible, establish contact with helicopter crew on a secure, dedicated radio frequency and remain in contact until touchdown. Identify the pre-designated Landing Zone if available.

All Landing Zone personnel must wear full PPE including, helmet, glasses, ear protection and a high-visibility vest.

7.28.2 Pre-Landing Checklist:

The flight crew will contact ground units via a prearranged radio frequency, ambulance radio frequency, or phone line for the following information.

TERRAIN	HAZARDS	LZ Markings	
Level or sloping	Street signs	Four turbo flares	
Type of surface	Vehicles	Four road flares	
Dust or loose snow	Towers	Four reflective flares	
Rocks, bushes, stumps, etc.	Poles	Four highway cones (days only)	
	Wires	(Extra strobes/flares/cones on upwind side)	

7.28.3 Landing Zone

When choosing a landing zone, look for the following:

- Flat or relatively level surface.
- Approximately 35 metres (120 feet) downwind from the scene to protect the incident from any downwash and exhaust.
- Ideally 30 metres (100 feet) square in size.

Sweep the site for all foreign unsecured and loose debris and wet the area down to reduce dust or lose debris from dislodging.

Communicate hazards (typically through the Air Ambulance dispatch) using the mnemonic HOTSAW:

- Hazards.
- Obstructions.
- Terrain.
- Surface.
- Animals.
- Wind/weather.

The landing zone should be marked on all four corners by either bright LED lights, or traffic cones.

7.28.4 Ground Operations

- Designate a Landing Zone Operator (LZO).
- When helicopter approaches the LZO will extend both arms straight above their head, giving the 'all-clear' signal.
- If there are any sudden changes or if any hazards arise the LZO simply waves off the landing, communicates the hazards to the crew and then the helicopter crew will assume a holding pattern until it is clear to land.
- The LZO remains in place, in a kneeling position, to act as a horizontal reference point for the pilot.
- For helicopter departure, the LZO again assumes a kneeling position at 12 o'clock giving the 'all-clear' signal for takeoff.

2025 Section 7.0 Page 54 of 65



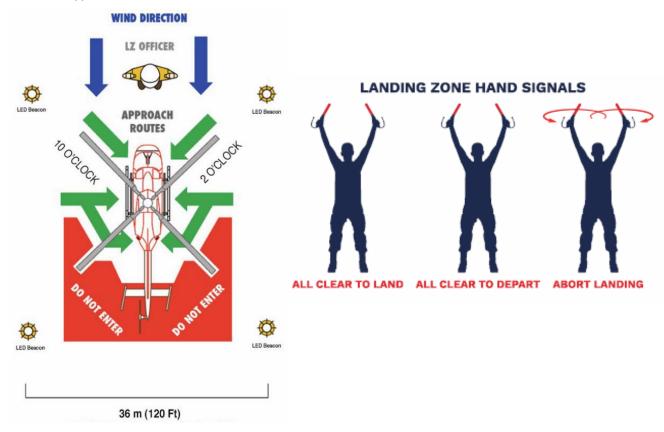
7.28.5 Loading and Unloading

- Do not approach the helicopter.
- The co-pilot will guide all crews nearing the helicopter for patient loading.
- For loading patients, crews must approach the helicopter in the 10 2 o'clock positions avoiding the tail rotor of the aircraft.

7.28.6 Hazards and Special Situations

- Landing zone operations and practices are the same for day and night operations.
- For night landings, all emergency personnel in the vicinity of the landing zone must don high visibility vests throughout operations.
- Nearby vehicles can focus lights on hazards in the immediate area but must not direct the lights at the helicopter as they could potentially obscure vision for the crew.
- If the incident is in a remote area turn nearby vehicles lights on to aluminate the landing zone, preferably vehicles should be located at the four corners of the landing zone.
- If the landing zone is covered in snow or partially obscured take up position in the centre of the landing zone and the pilot will land directly beside the LZO using them as a reference point.
- For road landings, all single lane highways or roads, traffic must be blocked in both directions
 throughout both the aircrafts' landing and take-off procedures work with the local police or highway
 authorities with jurisdiction.

7.28.7 Approach Routes





7.29 Missing Worker

If a member(s) of staff does not attend work during a scheduled shift and contact cannot be made, the On-Site Group Supervisor should assess the situation and decide whether to activate the Emergency Response Team.

Where it is determined that a worker is potentially missing the Emergency Response Team is to be activated to assist in determining their whereabouts and in mobilizing company personnel.

7.29.1 Response Plan for Missing Worker

- Attempt to establish contact with the missing person(s) by phone.
 - Leave a voicemail message with a provided call back number.
- Establish a history of the missing person(s) last known movements, by contacting colleagues, friends, family, contacts, and work associates.
- Identify the missing person(s) personal vehicle and attempt to locate vehicle on site or in proximity to his/her last known movements.
- Make enquiries with local/county/regional/state hospitals.
- Make enquiries with local/county/regional/state police.
- Continue to try to establish contact with the missing person using:
 - o Mobile telephone number(s).
 - Home telephone number.
 - Text messages.
 - o Email messages.
- If the missing person is a contractor:
 - The contracting company shall be contacted to determine if they know of the person's whereabouts or movements.
 - Continue to maintain regular contact with contracting company.

7.30 Severe Weather Incidents

Wildfires, thunderstorms, tornadoes, hail, blizzards, high winds, and heavy rain can develop quickly and hit hard posing a threat to life and property. Municipal governments are responsible for informing the public and providing detailed information about the nature of the emergency.

7.30.1 Severe Weather Safety

Identify the immediate hazards associated with the impact of a severe weather incident to the facility or any facility egress routes. If at any time the facility is threatened by a severe weather incident, prioritize the preparations in accordance with:

- Safety of personnel.
- Environmental protection.
- Protection of facility assets.

Identify the safety risk associated with facility personnel weathering the severe weather within the protection of the facility vs. the risks of evacuation.

Effectively use of the lead time prior to the arrival of the severe weather to achieve either:

- Early evacuation to prevent exposure to unsafe conditions.
- Shelter in Place preparations including adequate food and water supplies.

Minimize personnel exposure to hazardous conditions by rescheduling services, deliveries and non-essential activities.

Account for secondary effects of severe weather e.g. icy roads, toppled trees, flooding etc. in risk assessments.

Response Plan for Severe Weather

 Prepare a virtual or mobile Command Post to sustain operations in the event of power loss or building damage including:

2025 Section 7.0 Page 56 of 65



- Pre-printed maps.
- ICS wall charts.
- o Communication devices (satellite and cell phones, chargers etc.).
- Portable generators and heaters.
- Sustain Command Post operations by hardening the building against storm damage.
- Identify the current status of any potential or impending severe weather.
- Identify the safety of the facility location with regard to severe weather impact.
- Assess the appropriateness of continuing current facility operations.
- Maintain personnel accountability throughout any facility evacuation process.
- Identify the facility's ability to provide protection for personnel during the severe weather.
- Brief facility personnel to provide incident information and current status.
- Identify incident contingency plan(s) for the timely and safe shutdown of facility operations and the protection of facility assets.

7.30.2 Wildfire

A wildfire is an uncontrolled fire in an area of combustible vegetation that occurs in the countryside or a wilderness area. A wildfire differs from other fires by its extensive size, the speed at which it can spread out from its original source, its potential to change direction unexpectedly, and its ability to jump gaps such as roads, rivers and fire breaks. Wildfires are characterized in terms of the cause of ignition, their physical properties such as speed of propagation, the combustible material present, and the effect of weather on the fire.

Action Plan for Wildfire Response

- Make contact with supervision to obtain current fire statuses and fire spread predictions:
 - Location.
 - Spread direction.
 - Rate of growth.
 - Evacuation areas, evacuation routes, and proximity of facility areas under mandatory evacuation orders.
 - Provide and obtain contact numbers for periodic information and status updates.
- Identify actions and time required to safely shutdown the facility operations:
 - The safe evacuation of the personnel remains paramount.
 - o Protect company assets by shutting down early in a managed and organized fashion.
 - Consult Company management for guidance.
- Brief all personnel as to the current status of the wildfire and its:
 - Location.
 - Direction and rate of fire growth/spread.
 - Potential shutdown procedures.
 - Contingent evacuation procedures.
- Identify and specify the safe egress route including any new safe mustering location for all evacuating personnel.
- Maintain a common communication link with all evacuating personnel groups.
- Maintain a tracking and accountability system during the evacuation to:
 - Identify the current location of each evacuating individual.
 - Identify and confirm the safety of each evacuating individual.
- Contact the supervisor and provide the current status of the facility and evacuation status of the personnel.

2025 Section 7.0 Page 57 of 65



7.30.3 Lightning

Lightning is a powerful sudden flow of electricity (an electrostatic discharge) accompanied by thunder that occurs during an electric storm. To estimate how far away the lightning is count the seconds between the flash of lightning and the thunderclap. If you count fewer than five seconds, take shelter immediately, you do not want to be the tallest object in the area.

If caught outdoors:

- Avoid putting yourself above the surrounding landscape. Seek shelter in low-lying areas such as valleys, ditches, and depressions but be aware of flooding.
- Stay away from water. Get to land as quickly as possible if you are on the water. Lightning can strike the water and travel a substantial distance from its point of contact.
- Stay away from objects that conduct electricity, such as tractors and metal fences.
- Avoid being the highest point in an open area or holding an object that can make you the tallest object and a target for lightning.
- You are safe inside a car during lightning but be aware of downed power lines which may be touching your car. You are safe inside the car, but you may receive a shock if you step outside.
- In a forest, seek shelter in a low-lying area under a thick growth of small trees or bushes.
- Keep alert for flash floods, sometimes caused by heavy rainfall, if seeking shelter in a ditch or low-lying area.

7.30.4 Floods

A flood is an overflow of water that submerges land which is usually dry. Flooding may occur as an overflow of water from water bodies, such as a river or lake, in which the water overtops or breaks levees, resulting in some of that water escaping its usual boundaries, or it may occur due to an accumulation of rainwater on saturated ground.

What to do in case of flooding:

- For information listen to the radio, watch television, check Government Agency websites or follow Social Media.
- Be aware that flash flooding can occur. If there is any possibility of a flash flood, move immediately to higher ground. Do not wait for instructions to move.
- Be aware of stream, drainage channels, canyons and other areas known to flood suddenly. Flash floods can occur in these areas with or without typical warnings such as rain clouds or heavy rain.
- Do not walk through moving water. Six inches of moving water can make you fall. If you have to
 walk in water, walk where the water is not moving. Use a stick to check the firmness of the ground
 in front of you.
- Do not drive into flooded areas. If floodwaters rise around your car, abandon the car and move to higher ground when water is not moving or not more than a few inches deep. You and the vehicle can be swept away quickly. If your vehicle is trapped in rapidly moving water, stay in the vehicle. If the water is rising inside the vehicle, seek refuge on the roof.
- Do not park your vehicle along streams, rivers or creeks, particularly during threatening conditions.
- Sandbag and/or build a dike if possible.

7.30.5 Seismicity

Earthquakes are caused by subsurface breaking and/or shifting of rock, which will release small to extremely large forces of energy through the Earth's lithosphere creating seismic waves. These seismic waves can cause severe damage to drilling rigs, well-sites, pipelines, facility buildings etc. Gas, electricity and phone services are also in danger of being affected. Landslides, avalanches, and flash floods can also be triggered. Earthquakes can occur at any time of the year. After an earthquake there is the possible danger of an "After-shock" which can occur in the hours, days weeks or even months after the initial wave. Some earthquakes could actually be foreshocks and a larger earthquake could occur.

2025 Section 7.0 Page 58 of 65



During an earthquake

Wherever you are when an earthquake starts, take cover immediately. Move to a nearby safe place if need be. Stay there until the shaking stops.

If you are indoors: "DROP, COVER, HOLD ON"

- Stay inside.
- Drop under heavy furniture such as a table, desk or any solid furniture.
- Cover your head and torso to prevent being hit by falling objects.
- Hold onto the object that you are under so that you remain covered.
- If you can't get under something strong, or if you are in a hallway, flatten yourself or crouch against an interior wall.
- Stay away from windows and shelves with heavy objects.

If you are outdoors

- Stay outside.
- Go to an open area away from buildings.

If you are in a vehicle

- Pull over to a safe place where you are not blocking the road. Keep roads clear for rescue and emergency vehicles.
- Avoid bridges, overpasses, underpasses, buildings or anything that could collapse.
- Stop the car and stay inside.
- Listen to your car radio for instructions from emergency officials.
- Do not attempt to get out of your car if downed power lines are across it. Wait to be rescued.
- Place a HELP sign in your window if you need assistance.

AVOID the following in an earthquake

- Doorways. Doors may slam shut and cause injuries.
- Windows, bookcases, tall furniture and light fixtures. You could be hurt by shattered glass or heavy objects.
- Downed power lines stay at least 10 metres away to avoid injury.



After an earthquake

Stay calm. Help others if you are able.

- Be prepared for aftershocks.
- Listen to the radio or television for information from authorities. Follow their instructions. Place telephone receivers back in their cradles; only make calls if requiring emergency services.
- Put on sturdy shoes and protective clothing to help prevent injury from debris, especially broken glass.
- Check your building for structural damage and other hazards. If you suspect the building is unsafe, do not re-enter.
- If you have to leave the building, take your emergency kit and other essential items with you. Post
 a message in clear view, indicating where you can be found. Do not waste food or water as
 supplies may be interrupted.
- Do not light matches or turn on light switches until you are sure there are no gas leaks or flammable liquids spilled. Use a flashlight to check utilities and do not shut them off unless damaged. Leaking gas will smell.
- If tap water is still available immediately after the earthquake, fill a bathtub and other containers in case the supply gets cut off. If there is no running water, remember that you may have water available in a hot water tank (make sure water is not hot before touching it) and toilet reservoir (not the bowl).
- Carefully clean up any spilled hazardous materials. Wear proper hand and eye protection.
- Check on your co-workers. Organize rescue measures if people are trapped or call for emergency assistance if you cannot safely help them.
- Place a HELP sign in a window if you need assistance.
- Beware of secondary effects. Although ground shaking is the major source of earthquake damage, secondary effects can also be very destructive. These include landslides, saturated sandy soils becoming soft and unstable, and flooding of low-lying areas.

Department of Public Safety and Emergency Preparedness Canada https://www.getprepared.gc.ca/cnt/rsrcs/pblctns/rthgks-wtd/index-en.aspx

7.31 Wildlife

7.31.1 Wildlife Incidents and Mortalities

Wildlife observations should be tracked on a daily basis (nuisance or not) to determine which wildlife are in the area and whether activities are attracting wildlife. Mitigations may need to be incorporated to reduce the potential risk to workers and wildlife.

Wildlife mortalities should be reported to your supervisor and appropriate Company Representative immediately.

The following information should be recorded and reported:

- Nature of the incident (i.e., road collision).
- Type of species and number of individuals.
- Location of incident/collision.
- Time of incident/collision.
- Details of incident/collision (e.g., if animal was clipped or hit directly).

7.31.2 Wildlife Awareness

There are a number of different species of wildlife that can present hazards to workers.

Wildlife awareness is not limited only to working in remote areas but should be oriented to the habitat of the work area and included into local hazard assessments. Workers are required to follow the practices developed to manage local wildlife hazards.

2025 Section 7.0 Page 60 of 65



7.31.3 Working in wildlife habitat

- Make enough noise to prevent surprising wildlife.
- Watch for tracks and signs.
- Young animals are usually well-hidden. However, if you do stumble upon babies, do not approach or attempt to pick them up. Leave the area immediately, as a female will defend her young.

If you meet wildlife:

- Never approach wildlife. Although animals will normally avoid a confrontation, animals are unpredictable. Animals feeding may be dangerous.
- Always give animals an avenue of escape.
- Stay calm. Talk in a confident voice.
- Do not run. Try to back away slowly.
- Do not turn your back on wildlife.
- Do all you can to enlarge your image. Don't crouch down or try to hide. Pickup sticks or branches and wave them about.

7.31.4 Bears

All employees should be informed of the following:

- types of bears in the area
- recent bear activity
- general policies and procedures in place to mitigate potential conflict with bears
- actions to be taken if a bear is sighted including reporting procedures

Monitoring Work Sites

Employees working away from the main site may occasionally find themselves working in an area of high bear hazard. Normally work should be halted and workers removed until the bear hazard is no longer present. However, if work can not be shut down, a qualified bear monitor should be assigned to alert workers when bears are present and move people out of harms way. Only in extreme cases would bear monitors displace the bears in order for work to continue.

Monitoring Camps

Problem encounters with bears are more likely in a camp situation than a chance encounter in the field or at work sites. When bears are active in the area, monitors may be called upon to provide bear detection services and to alert personnel of the presence of a bear on site. If necessary, the bear monitor will attempt to deter the bear. Bear monitors may also advise on preventative measures within a camp, including altering camp locations or configurations as appropriate.

What to do if you see a Bear

If it does not approach:

- If spotted in the distance, do not approach the bear. Make a wide detour or leave the area immediately.
- If you are at close range, do not approach the bear. Remain calm, keep it in view. Avoid direct eye contact. Move away without running.

If the bear approaches:

- If the bear is standing up, it is usually trying to identify you. Talk softly so it knows what you are. If it
 is snapping its jaws, lowering its head, flattening its ears, growling or making 'woofing' signs, it is
 displaying aggression.
- Do not run unless you are very close to a secure place. Move away, keeping it in view. Avoid direct
 eye contact. Dropping your pack or an object may distract it to give you more time. If it is a grizzly,
 consider climbing a tree.

2025 Section 7.0 Page 61 of 65



What to do if a Bear Attacks

Your response depends on the species and whether the bear is being defensive or offensive. Bears sometimes bluff their way out of a confrontation by charging then turning away at the last moment. Generally, the response is to do nothing to threaten or further arouse the bear. While fighting back usually increases the intensity of an attack, it may cause the bear to leave.

Every encounter is unique, and the following are offered as guidelines to deal with unpredictable animals and potentially complex situations.

Grizzly Attacks from Surprise (defensive)

- Do nothing to threaten or further arouse the bear.
- Play dead. Assume the 'cannonball position' with hands clasped behind neck and face buried in knees.
- Do not move until the bear leaves the area. Such attacks seldom last beyond a few minutes.

Black Bear Attacks from Surprise (defensive)

Playing dead is not appropriate. Try to retreat from the attack.

Grizzly or Black Bear Attacks Offensively (including stalking you or when you are sleeping)

- Do not play dead.
- Try to escape to a secure place (car or building) or climb a tree unless it is a black bear.
- If you have no other option, try to intimidate the bear with deterrents or weapons such as tree branches or rocks.

Equipment/Deterrent

Bear Spray

- Must be used at very close range and should be used downwind only to avoid getting on yourself.
- It is indiscriminate and can cause extreme irritation to both the bear and the user.
- Will only work if fired at a bear, IT IS NOT A REPELLENT.
- If discharged, wash all your clothing, packs and any exposed skin with soap to help avoid attracting more bears with the smell.
- Works on cougars.

Bear Bangers.

- Should be fired up into the air between you and the bear.
- Do not fire the bear bangers at or behind the bear.

7.31.5 Elk

Elk can be aggressive and attack without warning. During the fall mating season (August – September) male are particularly belligerent. During the spring calving season (May – June) female elk aggressively defend their young. DO NOT approach elk in any season as they are DANGEROUS.

7.31.6 Moose

A moose encounter has the potential to be just as dangerous as a bear encounter. Therefore, similar measures must be taken to avoid these large ungulates. Moose are especially aggressive in the spring (calving season) and the fall (rutting season). Moose are most active in the early hours of the morning. However, one can expect to meet a moose any time of the day, especially in marshy woodland and around lakes. The best method of avoiding unwanted encounters with wildlife is to make a lot of noise. Hence, while practicing good bear-avoidance measures, moose will also be alerted of your presence. As harmless as a moose encounter may seem, it is important to have a high level of respect for the damage and injury these animals can incur if they feel threatened. Hence, if a moose is encountered, a minimum of 100 m must be put between yourself and the animal. If the moose remains stationary, you should cautiously move away from the animal, monitoring its behaviour in the process. Signals such as whether its ears are forward or

2025 Section 7.0 Page 62 of 65



back, or a lowering of the head are good indicators of aggressiveness (forward and erect is the animal being alert, back and down over the head is aggressive). React according to the signals being sent by the animal. Also, the direction you use in moving away should not interfere with any natural escape routes the moose may want to take. Similarly, it is very important not to position yourself between two moose (cow and calf or two rutting males).

If a moose feels threatened, it may charge at the person that has invaded its space. Moose are not predatory animals. Some examples of aggressive behaviour that may be exhibited are flattening of the ears and approaching humans. Unlike in a bear encounter, walking quickly, or if safe to do so, running away from an angry moose will not lead to a sustained attack; it will likely prevent it. Should the moose charge regardless, the best method of defense is to move behind a big tree, light standard or other large stationary object. Continue to try to get away from the animal while always keeping large solid objects between yourself and the moose. It is imperative that no false sense of security is attained once a large solid object is between a person and an angry moose, as moose are very capable of kicking accurately with their forelegs around a tree trunk. Although it is best to try to get away from the animal, this is sometimes difficult, particularly if the area is challenging to move through.

7.32 Site Security

Site security describes security measures that are designed to deny unauthorized access to facilities, equipment and resources, and to protect personnel and property from damage or harm (such as espionage, theft, or terrorist attacks). Site security involves the use of multiple layers of interdependent systems which includes Closed-Circuit Television surveillance, security guards, protective barriers, locks, access control protocols, and many other techniques.

7.32.1 Safety

The safety of facility personnel is paramount during periods of elevated security risk. Facility personnel have the right to ensure the safety of their fellow employees, prevent damage to facility property and prevent harm to trespassers but do not have the authority or permission to confine persons trying to leave the property.

7.32.2 Response Plan for Site Security

- Call 911.
- Assess the threat risk versus the ability to safely continue the facility operations.
- Conduct a team meeting to include all facility personnel apprising them of the threat potential, an assessment of its legitimacy and include precautionary and egress measures.
- Advise facility support companies and contractors of the threat potential and the precautionary measures.
- Remain and operate in pairs during periods of elevated security risk, each team should be provided with a reliable means of communication.
- The facility gates should be closed and remain closed.
- When risk assessment deems it appropriate, anyone entering or exiting must be identified and the date and time documented by security.
- During periods of elevated security risk and continued operation, facility management shall coordinate the travel plans of personnel to and from the facility.
- In the event that the threat is assessed to be credible and provides potential for injury to facility personnel, consider operational shutdown and the initiation of either a controlled proactive evacuation or shelter in place.
- Consider the initiation of two-person security patrols throughout the facility.
- Confer with Company management with regard to acquiring security support.
- Do not attempt to challenge unauthorized persons who appear to be armed or significantly distraught.
- Ensure that none of the security measures restricts safe and immediate egress from the facility in the event of an emergency evacuation.

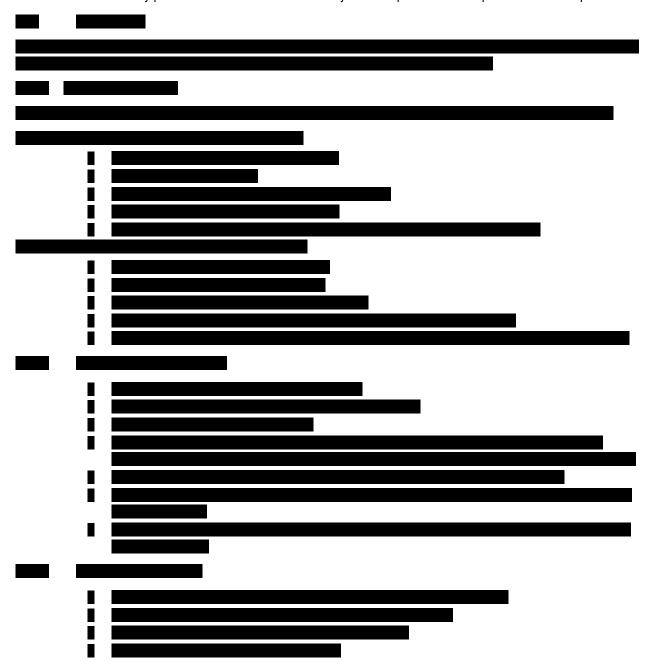
2025 Section 7.0 Page 63 of 65



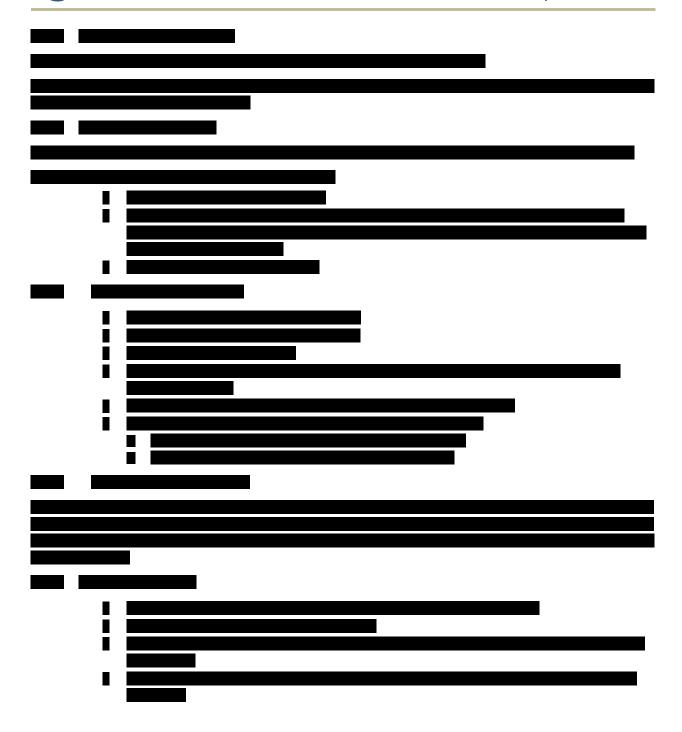
 Consider the postponement of all non-essential facility activities until an appropriate reduction in the security risk has occurred.

In the event of civil disobedience or ideological protest, facility personnel are directed as follows:

- Do not attempt to engage the protestors in anyway.
- Do not enter into discussions or verbal conversation.
- The On-Site Group Supervisor is to identify and communicate alternate egress routes from the facility in the event of emergency.
- Facility personnel should be sheltered away from the protestors as is possible to limit exposure.









8.0 POST EMERGENCY

8.1 Overview

The decision to stand-down the emergency, allow stakeholders to return to the incident area and resume normal operations is made by the Incident Commander and EOC Director in conjunction with the Regulatory Authority.

The EOC Director and Incident Commander ensure that the EOC Command Team and Site Command Team carry out post-incident activities as required, including the following tasks:

- Emergency stand-down notification.
- Public assistance and support.
- Clean-up and repair.
- Ongoing media communication.
- Post-incident documentation.
- Post-incident Investigation.
- Critical Incident Stress Debriefing.
- Post-incident Report.

8.2 Responsibility

The Incident Commander and EOC Director manage the following post-incident activities:

- Deactivate the emergency response operations.
- Establish post-incident goals.
- Delegate the responsibility for the completion of post-incident tasks.
- Ensure that all contacts are notified about the emergency stand-down.
- Ensure all post-incident activities are documented.
- Arrange for critical incident stress debriefing sessions as necessary.
- Conduct a debriefing meeting for all response team members.

8.3 Critical Incident Stress Debriefing (CISD)

Any individual directly involved in a critical incident and/or experiencing strong feelings relating to the event should be debriefed to encourage communication about their feelings and reactions without being judged or blamed.

Individuals include:

- Operating Personnel directly involved.
- Co-workers.
- Management.
- Contractors.
- Family Members.
- Community Members.

The Incident Commander and EOC Director ensure the following actions are completed:

- When practical after a serious incident, mobilize professionals who are trained in CISD.
- Explain to the participants that the debriefing is confidential. CISD meetings do not judge or lay blame. Recording devices at these meetings is prohibited.
- Do not schedule more than 20 people to do a debriefing session. Advise the CISD professional about the size of the session and provide information about the attendees before the session starts.
- Debriefing should occur 24-72 hours post-incident.

Objectives of the debriefing are to:

- Minimize the severity and duration of the trauma.
- Normalize feelings and reactions.

2025 Section 8.0 Page 1 of 9



- Acknowledge each individual's personal experience.
- Provide support.
- Provide information on crisis reactions and stress management.

8.3.1 Key Reactions to Stress

PHYSICAL	COGNITIVE (PERCEIVED)			
Headaches	Poor Concentration			
Dizziness	Slow Thinking			
Disorientation	Memory Lapses			
Fatigue	Loss of Objectivity			
Digestive Problems	Flashbacks			
Frozen Fright	Abnormal Pondering			
Loss of Control over Body Functions	Difficulty Processing Information			
Numbness	Distorted Thinking			
Increased Heart Rate				
Heightened Sensory Perception				
Sleep Disruptions				

8.4 Public Assistance and Support

The Incident Commander oversees the following actions:

- Verifies that the incident area is safe to re-enter in consultation with applicable Regulatory Authorities, if required.
- This may involve ensuring all equipment and debris are removed from public roadways. Any
 remaining hazardous areas must be cordoned off.
- Ensures that all sheltered or evacuated residents are contacted and informed that the incident is
 over
- Secures the evacuated area until the evacuees have returned to their homes and businesses.
- Confers with the EOC Director about sending a company representative to visit all members of the public who were affected.
- Ensures that the residents are provided with post-incident contacts and telephone numbers.
- Confers with the EOC Director to schedule a follow-up meeting(s) with the residents to clearly explain the incident and address their concerns.
- Ensures resident expense and damage claims are addressed.

8.5 Investigation

Site and evidence preservation is extremely important after an unplanned event. Senior Company Management must be contacted, and a decision will be made whether to send personnel or a third-party contractor to the site to conduct an investigation.

If an incident involving equipment at a site result in a death, the site must be secured. The Incident Commander must ensure that the location is not disturbed (unless protecting the health or safety of other workers or aiding an injured person) until the police have investigated the accident and an OHS inspector directs otherwise.

Third party investigations by police, insurance companies, and others may be required. It is important to co-operate with all third-party investigators; therefore, the following guidelines will apply:

 Do not allow third party investigators on-site, unless authorized by the Incident Commander; this is to ensure everyone's safety. Obtain the name, title, address, and telephone number of all inspectors.



- If access is granted to the site, ensure that third party investigators are escorted while on company
 property and, for their safety, denied access to any hazardous areas. Inspectors must not be left
 unattended.
- Ensure inspectors receive only the information they request and limit tours to the specific area the investigator has asked to investigate.
- Always tell the truth. Do not speculate.
- Wait until legal counsel is present before answering questions if the inspector suggests that the statements may be used as evidence or indicates that you have the right to counsel.
- Copy all documents given to third parties, including investigators.

An internal investigation can be a valuable learning experience. The findings can be applied to other operations and improve the emergency response system. An investigation can also result in improved incident prevention methods and operating practices.

8.6 Clean Up and Repair

The Incident Commander oversees the following actions:

- Ensures that site clean-up is managed in a timely manner. The remediation phase of the site cleanup may be filled by an environmental specialist.
- Ensures that all hazardous waste is disposed appropriately according to applicable regulations.
- Ensures the priority is given to clearing debris and restoring the site to normal operating conditions after the government and company investigations are complete.
- Ensures that all equipment is demobilized, cleaned and inspected for contamination.
- Ensures all roadblocks, staging area and detour equipment is demobilized.
- Ensures that all clean-up and repair actions follow safety and environment policies and safe-work procedures.

8.7 Post-Incident Notifications

The objective in post-incident notifications is to ensure that the best possible communication with stakeholders is made; to sustain Company core value commitments and capture any outstanding or legacy issues.

All affected parties are to be advised of the post-incident status of the incident:

- Company employees and contractors.
- Joint Venture Owners.
- Mutual Aid partners.
- Evacuees.
- Members of the Public who were involved.
- Government Agencies.
- Non-Governmental Organizations (NGOs).

Typically, this should be done through personal calls (supported by media releases) by the Information Officer.

All communications are to be approved by the EOC Director and Legal.

8.8 Incident Documentation/Company Records

The Incident Commander and the EOC Director instruct their teams to complete the following duties:

- Collect and compile all forms and documentation for the incident, including all electronic records.
- Securely store all incident documentation. The protection of records is extremely important to ensure the evidence is complete and unchanged.
- Obtain all photographs and videos of the incident site and response. All photographs of the incident site which have been taken are considered Company material and are to be properly documented.
- Ensure that pages and checklists from all emergency response manuals are replaced.

2025 Section 8.0 Page 3 of 9



- Prepare letters thanking support agencies, groups and individuals who provided assistance. Mention names of key individuals in correspondence.
- Company records must be reviewed by legal counsel before they are released.

8.9 Post-Incident Debriefing and Incident Assessment

The Incident Commander should follow the checklist below to ensure the following items and/or personnel are available at the debriefing session:

- A comfortable classroom/conference area large enough to conduct a post-incident debriefing.
- Refreshments.
- Map of Response Area.
- Copy of Incident Logs and all other Response Forms.
- Any Video Tape and/or Photos of the incident that may be helpful during the debriefing.
- If videotape is used, secure a video player and monitor.
- Flip chart or white board.
 - Masking tape to hang flip chart pages.
 - Drawing markers (various colors).
- Copy of Company's ERP.
- Note-taking materials for attendees (pads, writing instruments).
- Copies of any planning cycle plan(s).
- Copies of Daily Site-Specific Safety and Health Plans.

8.9.1 Session Guidelines

The debriefing should be facilitated by the Incident Commander. The following provides some session guides:

- Awareness on room safety e.g. emergency alarms, evacuation procedures for those participants not familiar with the facility.
- Objective and agenda of meeting.
- Need for openness and honesty.
- Emphasize that the debriefing is to provide learning and response improvement opportunities not fault finding.
- Conduct session in a non-confrontational manner.
- Allow everyone involved in the response to have an opportunity for input.
- Have a Scribe available to document comments and action items.
- Do not solve the issues but record as action items to be reviewed and addressed later.
- Participants should not try to justify their actions but can provide clarification if requested by the facilitator(s).
- Introduce the participants and the organizations they represent e.g. location and role.
- Conclude the meeting by communicating future action plans e.g. "where do we go from here?"

8.9.2 Site Response Team Debriefing Questions

- Did pre-emergency planning efforts occur relating to this particular incident?
- Did pre-emergency training take place relating to this particular type of incident?
- Was the Incident Command System (ICS) promptly activated?
- Was ICS terminology implemented early on during the incident and utilized throughout the incident?
- Was the location of the Command Post established early on?
- Was a safe Staging Area established early on during the incident?
- Did responders receive thorough initial briefings before assignment?
- Was a Check-In/Check-Out area established early on (preferably at Staging)?

2025 Section 8.0 Page 4 of 9



- Were all employees accounted for early on during the incident?
- Did responders preplan which escape or egress routes to utilize during emergency operations?
- Was there necessary command and control of resources to prevent freelancing?
- Were all hazardous substances and conditions identified before responders took direct action?
- Were the planning zones established by responders before action was taken?
- Did the On-Site Group Supervisor take action to ensure that all responders utilized the proper PPE?
- Were adequate resources ordered early on?
- Were planning cycle time guidelines utilized?
- Was employee evacuation undertaken?
- Were all required permits obtained prior to hazardous operations?
- Was site security and control provided?
- Were Incident goals and objectives established?
- Did emergency medical treatment occur in a timely fashion?
- Was PPE utilized in a safe and effective manner?
- Were direct mitigation efforts taken?
- Was action taken early enough to provide resources to perform monitoring?
- Was action taken early enough to provide resources to adequately complete source control efforts?
- Was a Site-Specific Health and Safety Plan completed?

8.9.3 EOC Team Debriefing Questions

- Did someone establish a EOC early on and implement the Incident Command System (ICS)?
- Were public notifications made in a timely manner?
- Were governmental notifications made in a timely manner?
- Was action taken early on to make required telephone notifications other than public and government?
- Was ICS terminology implemented early enough during the incident?
- Was action taken early enough to provide resources for Public Affairs and Community Relations Assistance?
- Was action taken to provide a 12-Hour Plan?

Response Actions Debriefing Questions

Detection

- Was the incident detected promptly?
- How was it detected?
- By whom?
- Could it have been detected earlier? How?
- Are there any instruments or procedures which might aid in detection?

Notification

- Was Management notified promptly?
- Was Management response appropriate?
- Was Head Office notified promptly?
 If so, why, how and who? If not, why not?

Evaluation

- Was the magnitude of the problem assessed correctly at the start?
- What means were used for this assessment?
- Are there any guides or aids to assist evaluation?
- What sources of information were available on public/structures in the area that could be at risk?

2025 Section 8.0 Page 5 of 9



- What sources of information were available on winds and on water currents?
- Was information adequate?
- Was the information useful (and used) for trajectory forecasts?
- Were the forecasts realistic?
- Do we have adequate information on product properties?
- Do we need additional information on changes of product properties with respect to time (e.g. as a result of weathering) and other processes?

Mobilization

- What steps were taken to mobilize incident countermeasures?
- What resources were used?
- Was mobilization prompt?
- Could it have happened faster, or should it have been?
- What about mobilization of manpower resources timely?
- Were the local response co-operatives or contractors used appropriately?
- How could this be improved?
- Was it appropriate to mobilize Head Office resources and was this effected promptly?
- What other corporate resources were available and were they identified and used adequately?

Response - Strategy

- Is the Company ERP an adequate response plan?
- Is it flexible enough to cope with unexpected events?
- Does the plan include clear understanding of local environmental sensitivities?
- What was the initial strategy for response to the incident?
- Is the strategy defined in the response plan?
- How did the strategy evolve during the incident and how were the changes implemented?
- What caused the changes?
- Are there any improvements needed? More training?

Response – Resources Used

- What resources were mobilized?
- How were they mobilized?
- How did utilization change with time? Why?
- Were the following resources used effectively:
 - o Contractors?
 - Government agencies?
 - o Company resources?
 - Co-operatives?
 - o Mutual Aid?
 - Volunteers?
 - o Consultants?
 - Others?
- What changes would have been useful?
- Is there adequate knowledge of resource availability?

Response – Effectiveness

- Was containment effective and prompt?
- How could it have been improved?
- Are additional resources required for containment?
- Was recovery effective and prompt?
- How could it have been improved?

2025 Section 8.0 Page 6 of 9



Are additional resources required for recovery?

Command Structure

- Who was initially in charge of the response?
- What sort of organization was initially set up?
- How did this change with time? Why?
- What changes would have been useful?
- Was there adequate surveillance?
- Were communications adequate?
- What improvements are needed? (Hardware, procedures, etc.)
- Was support from financial services adequate? Prompt?
- Should there be any changes?
- Is more planning needed?

Measurement

- Was there adequate measurement or estimation on the magnitude of the incident or volume of material released?
- Was there adequate measurement or estimation of the volume of product recovered?
- Should better measurement procedures be developed for either phase of operations?
- What would be appropriate and acceptable?

Government Relations

- What are the roles and effects of the various government agencies involved?
- Was there a single point of contact for the government agencies?
- Should there have been better communication with the agencies?
- Were the agencies adequately informed at all stages?
- Were too many agencies involved?
- Are any procedural changes needed to manage government relations?
- Was there agreement with the agencies on criteria for clean-up?
- How was this agreement developed?

Public Relations

- How were relations with the media handled?
- What problems were encountered?
- Are improvements needed?
- Was public outcry serious? How could it have been reduced?
- What communication systems were engaged by public and media (e.g. social media?)

8.10 Post-Incident Reports

The severity of an incident determines the report requirements.

Post-incident reports that are restricted to facts are limited to indisputable information such as the location of the incident, when the incident occurred, who responded, the number of injuries or casualties, and other information of this nature.

The report should include the following:

- A general description of the incident.
- Description of the response, containment, and recovery efforts.
- Area and site rehabilitation program.
- Recommendations for preventive measures in the future.
- Copy of personnel statements.
- Photographs illustrating the incident.

2025 Section 8.0 Page 7 of 9



Cost analysis for lost production, facility repairs, land reclamation, and community compensation.

A post-incident report contains analyses and evaluation of the incident. The report provides advice on how to prevent a recurrence and makes emergency preparedness recommendations. In addition, it may identify the immediate and basic causes.

Issues related to liability and responsibility may arise from the analysis of the report.

Reports that define responsibility, liability or corrective actions may have to be presented during legal proceedings. In such cases, however, the report may be protected from the disclosure by the legal doctrine of privilege. Any report that relates to the causation or liability of the company for an incident should be privileged and not given to a plaintiff in legal proceedings. A report that is not reviewed by a Company lawyer and that has been requested by a third-party legal counsel; should be addressed to Company legal counsel.

In addition to company reports, independent report(s) may be prepared by government agencies.

8.11 Cause and Liability Report

Cause and Liability Reports are privileged and confidential. They are prepared at the request of legal counsel in contemplation of litigation.

Cause and liability reports should be clearly separated from the reports that document factual matters and set out the remedial actions.

Privileged reports may include the following information:

- A description of the sequence of events that led up to the incident, during the incident and following the incident.
- Details related to the potential severity and the potential for frequency of recurrence. This suggests the importance of investigation and priority for action.
- An analysis including a logical determination of the cause of the incident.
- Evaluation of the emergency response:
 - o On-site remedial procedures.
 - Safety standards that were applied during the response.
 - o Internal notification and communication systems.
 - Effectiveness of media, government liaison or community relations efforts.
 - Public safety actions.
 - Actions taken to temporarily reduce the risk.
- An assessment of any potential legal or environmental issues that may be raised because of the incident or because of the company's responses.
- A plan to reduce the risk of a similar incident, including recommendations for the following actions:
 - Future actions.
 - Design changes and operating procedure changes.
 - Improvements to the emergency preparedness program.

8.12 Incident Investigations

Incidents in the work environment must be thoroughly investigated and reported to ensure every effort is made to identify and correct underlying causes. In every emergency involving a fatality, serious injury and loss or significant damage to Company property, corporate officials will either provide assistance with or take the lead in an incident investigation.

Particular care must be exercised to ensure that all evidence is preserved in its original state.

Where loss or damage to Company property or loss of revenue has occurred, evidence will not be disturbed until permission has been received from the Insurance Company adjuster and/or any government agencies involved.



Work within the incident area is only permitted in order to make an incident scene safe or to preserve equipment against loss

Examples: Lowering a suspended load or draining water from equipment to prevent freezing damage.

All such work must be done in a manner that preserves the incident scene as much as possible.

Where an injury or fatality has occurred, the incident scene may be disturbed to preserve life and/or prevent catastrophic loss but must be proportional to the disruption of evidence.

Example: Isolation of equipment to prevent a spill to water shed.

Every attempt should be made to obtain permission for re-entry to an incident scene from the Jurisdiction Having Authority.

8.12.1 Serious Injury/Fatality Investigations

Following an incident where a fatality or a serious injury has occurred, government agency representatives will likely decide to carry out an investigation into either the extent or cause of the injury/fatality.

After presenting their credentials, these representatives are to be afforded full co-operation in the performance of their duties. Work at the scene of the injury/fatality may not be resumed until permission has been obtained from the various agencies involved.

8.12.2 Insurance Investigations

Insurance companies may wish to conduct investigations of their own into an incident. Once they have shown their credentials, they must be accompanied by a senior Company employee.

Access to an incident scene is predicated on the scene being safe and the persons entering the scene following Company Health and Safety requirements (e.g. PPE, etc.).



9.0 JURISDICTIONAL REQUIREMENTS

Federal and provincial/state specific emergency response regulations and guidelines are identified in the following sections.



3

9.1 Spill & Release Reporting Requirements

Spill & Release Reporting Requirements

All spills must be reported to your Environment Specialist

	Reportable Quantities							
	Alberta (see Note 1) Any release that may cause and adverse effect must be reported			Federal Transportation (see Note 3)		British Columbia (see Note 2) All releases must be reported, regardless of a minimum reportable quantity, if the release of a "polluting substance" is causing "pollution".		
Product Onsite		Offsite				nsite	Offsite	
Spills								
Crude oil, condensate, emulsions, diluent, etc.	2 m³, or any quantity not confined to site.	All spills. Any spill from a pipeline.	Any quant	ity that endangers public safety	100 L		100 L, or any spill from a pipeline.	
Produced water	2 m ³ , or any quantity not confined to site	All spills. Any spill from a pipeline.	Any quant	ity that endangers public safety	200 L		2 m ^{3,} or any spill from a pipeline.	
Diesel fuel, gasoline and other refined flammable liquids (Class 3)	200 L	200 L	Any quant	Any quantity that endangers public safety		100 L	100 L	
Used Glycol (Due to BTEX)	25 L (or see Note 1)	25 L (or see Note 1)		Not Regulated	25 L (or	see Note 2)	25 L (or see Note 2)	
Methanol (New or used)	200 L	200 L	Any quant	Any quantity that endangers public safety		100 L	100 L	
Lube oil (New or used)	200 L (or see Note 1)	200 L (or see Note 1)		Not Regulated	1	100 L	100 L	
Oilfield wastes (See Note 4)	2 m³, or any quantity not confined to site	All spills.	Any quant	ity that endangers public safety	N	lote 4	Note 4	
Molten sulphur or flammable solids (Class 4)	25 kg	25 kg	Any quant	ity that endangers public safety	25 kg		25 kg	
Pesticides (See Note 4)	Reportable quantity depend	dent on product classification.	Any quant	ity that endangers public safety	Reportable quantity de		dent on product classification	
oxic substances (Class 6.1)	5 kg or 5 L	5 kg or 5 L	Any quant	ity that endangers public safety	5 k	g or 5 L	5 kg or 5 L	
Corrosives (Class 8)	5 kg or 5 L	5 kg or 5 L	Any quant	ity that endangers public safety	5 kg or 5 L		5 kg or 5 L	
Other refined products (See Note 4)	Reportable quantity depend	dent on product classification.	Any quant	y that endangers public safety Reportable quantity dependent on product			dent on product classification	
Air releases								
Natural gas	Any release from a pipeline and a other release >30,000 m3 (See Note 5).	Any quantity that could pos public safety or 50 kg (no		10 kg, if there is a breakage in a pipeline or fitting operated above 100 psi that results in a sudden and uncontrolled release of natural gas. Any quantity that could pose a day public safety or 50 kg (non-pipeline).				
Report to:								
Upstream produced fluids and natural gas	Alberta Energy Resources (AER) field office Bonnyville: 780-826-5352 Edmonton: 780-642-9310 Drayton Valley:780-542-5182 Red Deer: 403-340-5454 Fort McMurray: 780-743-7214 Grande Prairie: 780-538-5138 Slave Lake: 780-843-2050 Medicine Hat: 403-527-3385 Oral report immediately to above. A written report may be requested. Report any pipeline release to AER and notify landowner.			Ministry of Emergency Management and Climate Readiness 1-800-663-3456 Oral report immediately to above. Written report only required if requested by the BCER in accordance with BCER Emergency Response Plan Requirements, Section 4.8. for BCER regulated/permitted assets, an update to ministry and end of spill report (entered into KERMIT within 24 hours) is only required for the following: It is a Level 1, 2, or 3 emergencies (i.e., anything above the minor notification requirement) It is a pipeline asset It is requested by the BCER				
Other substances or TDG releases	Alberta Environment (AENV) 1-800-222-6514; Fax: 780-427-3178 TDG releases to be reported to local police and 1-800-272-9600. Oral report immediately to above. Written report to AENV within 7 days. Written report within 30 days to Transport Canada for TDG releases. TDG releases also require reporting to: the consignor of the dangerous goods; the owner, lessee or charterer of the road vehicle; and, for an accidental release from a cylinder that has suffered a catastrophic failure, CANUTEC at 613-996-6666.			B.C. Ministry of Environment, local police & TDG releases via the EMCR 1-800-663-3456 Oral report immediately to above. Written report may be required by the MOE. Written report				
ederally regulated releases	 Report to Environment Canada 1-780-499-2432 for any release of a deleterious substance directly or indirectly (including through groundwater) into water frequented by fish. Canadian Energy Regulator (CER)-regulated pipelines require reporting to the CER 403-299-2773 for all construction and operation releases. Operation incidents must also be reported to the Transportation Safety Board of Canada (TSBC) 819- 997-7887. Radioactive releases must be immediately reported to any CNSC (Canadian Nuclear Safety Commission) office and a full report must be filed within 21 days. CNSC Western Regional Office 403-292-5181. 							

In Alberta: A release includes to spill, discharge, dispose of, spray, inject, inoculate, abandon, deposit, leak, seep, pour, emit, empty, throw, dump, place, and exhaust. To be reportable, the release must be into the environment. For example, a spill that is fully contained within a building, including odours, is not considered a release into the environment. However, if there is any possibility of odours venting from the building into the environment, AENV should be notified.

All releases must be reported, regardless of a minimum reportable quantity, if the release has caused, is causing or may cause an adverse effect. An "adverse effect" is defined as "impairment of or damage to the environment, human health or safety, or property". All releases must be reported, regardless of a minimum quantity, if the release is into a watercourse, groundwater, or surface water. If there is any doubt, report the release.

In B.C.: All releases must be reported, regardless of a minimum reportable quantity, if the release of a "polluting substance" is causing "pollution". A "polluting substance" is any substance, whether gaseous, liquid or solid, that is capable of causing pollution if it were to escapable to air, or be spilled or escape onto land or into a waterbody. "Pollution" is the presence in the environment of substances or contaminants that substantially alter or impair the usefulness of the environment. If there is any doubt, report the release.

Transportation refers to the TDG and means all handling, offering for transport and transporting of dangerous goods by any means of transport. Handling means loading, unloading, packing, or unpacking dangerous goods in a means of containment for the purposes of, during, or following transportation, and includes storage during transportation. Transportation does not include pipelines. Contact your Environment Specialist. Classification (Waste/TDG) is variable. Refer to the product's SDS or the WPS to determine TDG classification; of note: amines and inhibitors can have a variety of classifications (e.g., corrosive, flammable, etc.).

Additional AER immediate reporting requirements include: any fire that occurs at a well or facility, or at a storage tank or pit, where the loss exceeds 30,000 m³ of natural gas or where damage to the wellhead occurs; any break or leak in a vessel or gathering line from which the loss exceeds 30,000 m³ of natural gas; any unexplained loss, including theft of oil at a well or facility, where the loss exceeds 2 m³ of oil, condensate or crude bitumen; any casing leak or failure; any leak or break in a pipeline; any leak in a pipeline during pressure testing.

Uncontrolled when printed. The controlled copy is on the NRM EHS e-site. Rev. January 8, 2025



9.2 ALBERTA

9.2.1 Levels of Emergency Definitions

ALERT

An incident that can be handled on site by the licensee through normal operating procedures and is deemed to be a very low risk to members of the public.

LEVEL 1 EMERGENCY

There is no danger outside the licensee's property, there is no threat to the public, and there is minimal environmental impact. The situation can be handled entirely by licensee personnel. There will be immediate control of the hazard. There is little or no media interest.

LEVEL 2 EMERGENCY

There is no immediate danger outside the licensee's property or the right-of-way, but there is potential for the emergency to extend beyond the licensee's property. Outside agencies must be notified. Imminent control of the hazard is probable but there is a moderate threat to the public and/or the environment. There may be local and regional media interest in the event.

LEVEL 3 EMERGENCY

The safety of the public is in jeopardy from a major uncontrolled hazard. There are likely significant and ongoing environmental impacts. Immediate multi-agency municipal and provincial government involvement is required.

Downgrading the Emergency Levels and Stand-Down

Any discussions regarding downgrading of the incident Emergency Level classification must be preceded by a thorough review of the following considerations:

- Has the release been stopped?
- Is the hazard mitigated?
- Have all public safety threats been eliminated?
- Are there any remaining risks that could escalate if the Emergency Level was downgraded?
- Has an appropriate environmental monitoring plan been initiated (surface water, groundwater, soils, wildlife, vegetation, air quality monitoring)?
- Has environmental data been collected, analyzed and is it available to be submitted to the Regulatory Authority?
- Has an environmental mitigation plan been developed based on the data collected and has it been evaluated relative to potential residual impacts?

If there is agreement on the above points between the Incident Commander, CEOC Director and the Regulatory Authority then a coordinated discussion with the Regulatory Authority can be held to obtain approval to downgrade the emergency to the appropriate level.

Once site restoration is deemed appropriate and incident facts justify the relaxation from a state of readiness or alert, the Company must make the decision to stand-down the emergency in consultation with the Regulatory Authority.

The Company must keep all notified stakeholders and evacuated persons informed of the status of an emergency.



9.2.2 Spill Reporting

NorthRiver must report all spills or releases that are or may cause an adverse effect as defined in the Responsible Energy Act and the Alberta Environmental Protection and Enhancement Act (EPEA) regarding the Energy Industry. The AER must be notified through the 24-Hour Response Line. This system is designed to streamline and standardize the reporting of spills and to ensure a coordinated, integrated response from different government agencies. The AER 24-Hour Response Line notifies both Ministry of Environment and Protective Areas (EPA) and Environment and Climate Change Canada.

Notification Requirements

For both refined and unrefined products, upon becoming aware of a reportable release, NorthRiver **must orally** notify the AER at the first available opportunity.

Upon completing the oral notification, the AER sends the licensee the Field Inspection System Number (FIS) along with the Initial Incident Report which is to be completed **within seven days** of receiving the document from the AER.

Note: NorthRiver must notify the landowner of any release that occurs off lease, or that occurs on an easement or right-of-way (Landowners can be private or any of the following: on Crown land (EPA), on reserves (First Nations), in provincial parks (tourism, parks and recreation). Landowner cooperation is essential in being able to quickly respond to a release.

For the purposes of reporting, NorthRiver shall use the following guidelines and considerations to assess whether the release may cause, is causing or has caused an adverse effect.

- Any third-party impact (off lease) e.g. crop damage, vegetation damage and livestock impact.
- Spilled substance likely to contaminate surface or ground water.
- Groundwater and/or surface water is contaminated.
- Release or spill has potential for offsite odour complaints.
- Toxic or flammable release to air going offsite.
- Chemical and physical characteristics of the substance released.
- Receiving or potential to receive media attention.
- Location of the release.

The onus is on the party who causes the release and has control of the situation to assess the adverse effect.

Adverse effect is defined in the EPEA as "impairment of or damage to the environment, human health or safety, or property".

Unrefined products include conventional crude oil, LPG, diluents, condensate, synthetic crude, sour gas, produced water, and other produced fluids), pipeline breaks and incidents involving oilfield wastes.

Refined Product includes diesel, gasoline, sulphur, and solvents.

For further Alberta spill release reporting guidelines please refer to the following:



9.2.3 TDG Reporting – Alberta Environmental and Dangerous Goods Emergencies (EDGE)

Alberta EDGE is a 24-hour centre that supplies technical information to industry, the public and enforcement officials about the Transportation of Dangerous Goods (TDG) Regulations and all associated standards. They are also the emergency response centre for reporting releases or anticipated releases of dangerous goods during any aspect of transport as outlined in the Regulations.

In addition, Alberta Transportation has agreements with Ministry of Environment and Protective Areas (EPA) and Alberta Energy Regulator (AER), serving as a contact point for contraventions, spills, and complaints.

Whether a release or emission originated from the oil, gas, chemical, or manufacturing industry, Albertans can feel assured that the correct departments are informed of the situation immediately and actions are taken to minimize any impact on the public, the environment or public infrastructure.

Alberta Transportation is the only jurisdiction in Canada that has dually appointed Provincial and Federal Dangerous Goods Inspectors that inspect dangerous goods facilities, monitor highway tank facilities and respond to incidents involving dangerous goods.

The Safety and Compliance Services Branch is responsible for the compliance and enforcement of the Provincial Dangerous Goods Transportation and Handling Act and Dangerous Goods Transportation and Handling Regulation as well as the Federal Transportation of Dangerous Goods Regulation which has been adopted by Alberta. Both regulations set safety standards and shipping requirements for thousands of dangerous goods, in addition to providing a means of communicating the nature and level of danger associated with various chemicals and other products.

Part 8 of the TDG Regulations details the situations and requirements for reporting of specific events involving dangerous goods. These are briefly discussed in this document. Specific sections of the Regulations have been referenced.

Any person who has the charge, management or control of the Dangerous Goods must report a release or anticipated release of dangerous goods that are being offered for transport, handled or transported by road vehicle, railway vehicle or ship as soon as possible, after a release or anticipated release. The verbal report has to be made to any local authority that is responsible for responding to emergencies at the location of the release or anticipated release. The report must be made if the dangerous goods are, or could be, in excess of the quantity set out in the following table AND if the release endangers or could endanger public safety.



TDG Reporting Requirements

Types of Report	Who must make the report?	When is the report required?	Who should receive the report?	Method of Reporting	Is a 30-day follow-up report required?
Emergency Report	Person who has the charge, management or control of the dangerous goods (DG).	As soon as possible; In the case of a release or an anticipated release of DG that are or could be in excess of the quantity set out in Section 8.2 of the TDG Regulations and if it endangers or could endanger public safety.	 Local authority responsible for emergency response. 911 (or local police; relevant provincial authorities). Alberta Transportation Canadian Coast Guard. 	Telephone (Verbal)	No
Release or Anticipated Release Report	Person who made the Emergency Report.	 The report is required in these situations: the death of a person; a person sustaining injuries requiring immediate medical treatment by a health care provider; an evacuation of people or their shelter-in- place; the closure of a facility, road, main railway line or main waterway; a means of containment has been damaged; the centre sill or stub sill of a tank car is broken or there is a crack in the metal < 15 cm (6 inches). 	 CANUTEC; the consignor (shipper); And, if applicable, The Canadian Nuclear Safety Commission (CNSC); or A Vessel Traffic Services Centre, or the Canadian Coast Guard. 	Telephone Followed by Written Report	Yes
Loss or Theft Report	Any person who had the charge, management or control of the dangerous goods before the loss of theft.	 As soon as possible. In case of loss or theft if the quantity of DG is greater than the quantities indicated in Subsection 8.16(2) of the TDG Regulations. 	 CANUTEC; And, if applicable, Natural Resources Canada, or CNSC. 	Telephone (Verbal)	No
Unlawful Interference Report	Person who has the charge, management or control of the dangerous goods (DG).	As soon as possible after it is discovered that dangerous goods have been unlawfully interfered with.	CANUTEC;And, if applicable,Natural Resources Canada; orCNSC.	Telephone (Verbal)	No

For a detailed description of the information required in the report, refer to the Emergency Release or Anticipated Release Report Requirements (Alberta Government, February 2020).

Emergency, Release or Anticipated Release Report Requirements (alberta.ca)



9.2.4 Flaring Reporting

AER is the primary contact for flaring from approved facilities. Flared volumes at an AER approved facility need to be reported to the AER 24-Hour Response Line when exceeding an approved limit which results in smoke or odours, or that extends over a long duration (24-hours).

Temporary Flaring, Venting, and Incineration Notification Requirements 1

Type of operation (applies to sweet and sour streams)	Duration of event (hrs in 24- hr period)		Gas volume ² (10 ³ m ³ in a 24- hr period)	Notification ^{3,4}
Temporary (i.e., for well clean-up, testing, or maintenance)	< 4	and	< 30	No notification ⁵
Temporary (i.e., for well clean-up, testing, or maintenance) if gas contains ≤ 10 mol/kmol H ₂ S	> 4	or	> 30	Residents, schools, 1.5 km radius; AER field centre
Temporary (i.e., for well clean-up, testing, or maintenance) if gas contains >10 mol/kmol H ₂ S	> 4	or	> 30	Residents, schools, 3 km radius; AER field centre
Temporary (i.e., for well clean-up, testing, or maintenance) through permanent battery or plant flare or incinerator	< 4			No public notification; ⁵ Notify the AER if flaring >30 10 ³ m ³
Temporary (i.e., for well clean-up, testing, or maintenance) through permanent battery or plant flare or incinerator	> 4			Residents, schools, 0.5 km radius; AER field centre

- See section 1.6 of Directive 060 for information on the AER DDS system and how to notify the appropriate AER field centre via the DDS system.
- Notification requirements include duration and volume from flowback operations. These gases may be hydrocarbon or gases used in fracturing fluids (carbon dioxide or nitrogen) in any mixture. For reporting purposes, hydrocarbon volumes must be distinguished from fracture gas volumes (see section 3.9 of Directive 060).
- ³ 24 to 72 hours in advance of planned flaring, venting, or incineration operations, the licensee, operator, or approval holder must notify the appropriate AER field centre via the DDS system, all rural residents outside towns, villages, and urban centres and within the specified radius, and the chief administrative officer or equivalent of a town, village, or urban centre within the specified radius. Note that for incorporated centres and hamlets, it is sufficient to contact only the appropriate administrator. Advance notification of more than 72 hours (but not longer than 90 days) must also offer the option for renotification 24 to 72 hours before the start of operations. After 90 days, renotification is mandatory.
- ⁴ The AER recommends additional "good neighbour" notification for short-duration events for residents and schools that have identified themselves to the licensee, operator, or approval holder as being sensitive to or interested in emissions from the facility within the same notification radius as specified for events of more than four hours.
- The AER recommends additional "good neighbour" notification for longer duration events (of more than four hours) for residents and schools that have identified themselves to the licensee, operator, or approval holder as being sensitive to or interested in emissions from the facility.
 Alberta Energy Regulator

Directive 60: Upstream Petroleum Industry Flaring, Incinerating, and Venting
April 2022



9.2.5 Emergency Planning and Response Zones

Various factors will determine the extent of the EPZ:

- The nature of the product released.
- The volume released.
- The product flow rate.
- Weather or meteorological conditions.
- Topography.

For sour gas/emulsion properties the calculated EPZ is the distance to the time weight average of 100-ppm H₂S over a 60-minute period which is equivalent to 235 ppm for 3 minutes. This pre-calculated zone serves as the initial defined spatial area of response efforts until the sour gas hazard can be assessed using gas monitoring equipment to determine actual conditions.

To determine the size of the response zones, response personnel should approach the perimeter of the response zone cautiously so as not to exceed personal exposure limits and begin monitoring with handheld equipment at the nearest residence. Note that the H₂S personal exposure limit in Alberta is 10 ppm (8-hour exposure limit) and 15 ppm (ceiling exposure limit).

From this location, the response personnel should continue to approach any additional downwind residences that may be closer to the release until the outer boundary of the response zone is determined.

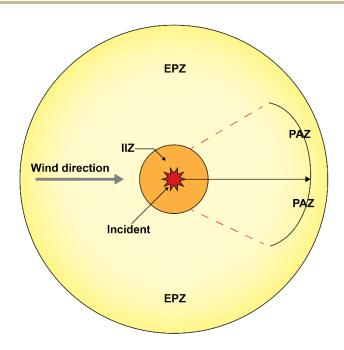
Whereas the EPZ is used for planning purposes, and it reflects an area where significant exposure could result without prompt action, actual conditions during an incident need to be assessed to ensure an appropriate initial response. The response zones are where resources are focused during an incident to protect public safety. A licensee should also be aware that a different type and size of response zone could be established by the police if a bomb has been confirmed at the pipeline, well, or facility.

Response Zones

The Emergency Planning Zone (EPZ) is a geographical area surrounding a licensed well, pipeline and/or facility containing hazardous product that requires specific emergency response planning by the licensee. During any operations involving H_2S or HVP product, the licensee must ensure that on-site personnel are aware of the size of the EPZ. In the case of a sour gas or toxic hazardous gas release the initial hazard area is the predefined EPZ determined using the ERCBH2S model shown on the area maps. The size and shape of the hazard area or EPZ may change with the nature of the incident and any related data from the incident, such as air or environmental monitoring results.

The Initial Isolation Zone (IIZ) defines an area in close proximity to a continuous hazardous release where indoor sheltering may provide temporary protection due to proximity of the release. If safe to do so, the licensee must attempt to evacuate the residents from the IIZ.

The Protective Action Zone (PAZ) is an area downwind of a hazardous release where outdoor concentration levels may result in life threatening or serious and possibly irreversible health effects to the public. Immediately following a release of the H₂S or HVP product, the approximate size and direction of the PAZ can be determined using actual conditions at the time. The PAZ is a triangular area that starts at the IIZ and runs outwards to the edge of the EPZ. The PAZ is estimated to initiate priority response actions within the EPZ.



Initial Isolation and Protective Action Zones for illustration purposes only

9.2.6 Methods of Public Protection

If the health and safety of the public cannot be assured, then the Company must determine the best approach for protecting the public. Depending on the severity of the emergency, the Company will implement one of three approaches to public protection: sheltering, evacuation, or ignition.

The purpose of public protection measures is to proactively address public health and safety concerns and to take appropriate response actions to protect the public from harm. This may include removing or reducing the hazards and asking public stakeholders to shelter and/or evacuate as required.

It is the Company's responsibility to initiate public protection measures in the EPZ for any incident involving a release of sour gas product if there is potential for the release to impact members of the public. This could also include SO₂ if the sour gas release was ignited.

The type of public protection measure employed depends on the severity of the incident and/or on the monitored results in the unevacuated areas. The licensee is responsible for ensuring that appropriate emergency response procedures are in place and can be implemented, including for areas of potential impact beyond the EPZ.

Affected Parties within a Predetermined EPZ

- Permanent and part-time residents, including those residing on dead-end roads, beyond a predetermined EPZ, where occupants are required to egress through the EPZ.
- Business owners and/or operators and industrial operators, including oil and gas operators with manned facilities inside a predetermined EPZ.
- Private and public recreational property owners and/or operators (e.g. campgrounds, trapper cabin, private cabins, etc.) in and adjacent to a predetermined EPZ.
- Public facilities and publicly used development, such as schools and community centres in or adjacent to a predetermined EPZ.
- Non-resident landowners or farmers renting land who do not dwell on the property but whose lands
 are within a predetermined EPZ. These persons must be considered in the development of the
 ERP and be advised their property lies within the EPZ.

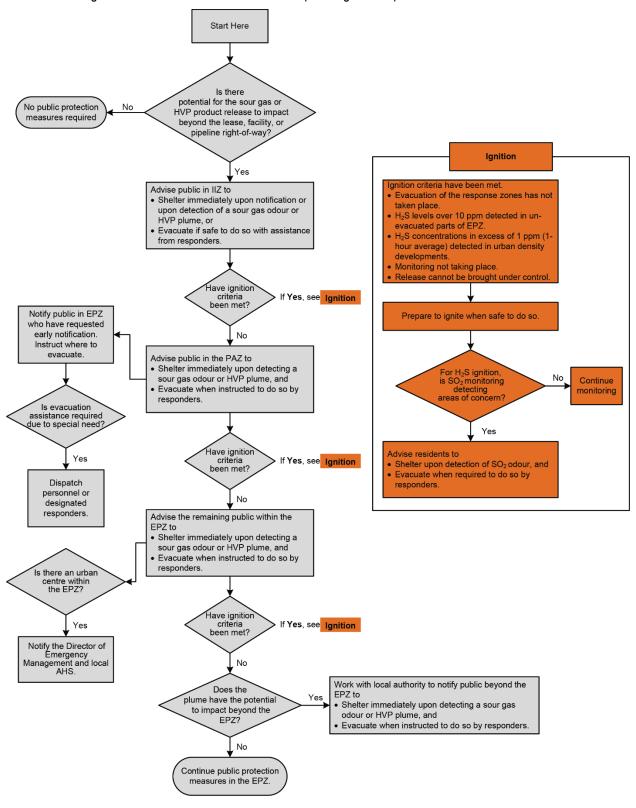


- First Nation reserves, registered trappers, guides, outfitters, and registered grazing lease rights holders or any other rights holders if the EPZ impacts the safety or livelihood of these stakeholders.
- Oil and gas operators with unmanned assets (e.g. wells, pipelines, facilities, etc.) in a
 predetermined EPZ whose activities may be impacted in the event of an emergency.



Public Protection Decision Tree

Use the following Public Protection Decision Tree for all planning and response zones:





Sheltering

Sheltering may be the safest and most viable public protection measure in avoiding exposure to toxic or combustible gases in the following situation:

- Incident is of relatively short duration.
- Source of a release is uncertain.
- Residents are waiting for evacuation and transportation assistance.
- Not enough time is available to safely evacuate residents.
- Evacuation poses a higher risk to evacuees.

Residents will be asked to remain inside and ensure that all windows and doors are closed and that all air intakes (furnace, stove, bathroom, and dryer vents) are plugged to limit exposure to outside air until the situation is rectified or they are further notified.

Note: For general Shelter in Place Instructions, refer the Response Action Plans Section in this document.

Evacuation

Safe evacuation is the primary public protection measure for long term H₂S, SO₂, or other toxic releases. Evacuation begins in the IIZ and radiates outward into the PAZ downwind of the release.

Evacuation must begin at the declaration of a Level 2 Emergency. The licensee must continuously assess and act on the need to expand the evacuation area based on the monitored levels of H₂S, SO₂, and other toxic releases.

Public within the IIZ must be evacuated or sheltered first. Once the IIZ has been secured, responders will address the public within the PAZ, downwind of the incident site. Once the PAZ has been secured, responders will address the public in the rest of the EPZ as necessary.

Evacuation of occupants inside the defined IIZ, PAZ and EPZ shall be prioritized as above and in the following manner:

- 1. Individuals located immediately downwind or adjacent to the incident site.
- 2. Individuals who have indicated they have special needs or require assistance.
- 3. Individuals who cannot be contacted by telephone.

Should area users be affected by an emergency involving Company operations, the response personnel will notify stakeholders by telephone or by personal contact with Rovers. A notice of evacuation is also placed on any unattended vehicles in the evacuation area and on doors of residences who are not home and cannot be contacted by phone.

Note: Individuals who have been identified as having special needs should be treated with priority and may choose to evacuate an area at an earlier time than other residents. These individuals may be highly responsive or sensitive to H₂S or other toxic gases.



Evacuation Requirements

H₂S concentrations in unevacuated areas	Requirements
1 to 10 ppm (3-minute average)	Individuals who requested notification so that they can voluntarily evacuate before any exposure to H ₂ S must be notified.
Above 10 ppm (3-minute average) *	Local conditions must be assessed, and all persons must be advised to evacuate and/or shelter.
*If monitored levels over the 3-minute interval are declining (e.g., three readings show a decline from 15 ppm to 10 ppm to 8 ppm over 3 minutes), evacuation may not be necessary even though the average over the 3-minute interval would be 11 ppm. The company should use proper judgement in determining if evacuation is required.	
SO ₂ concentrations in unevacuated areas	Requirements
5 ppm (15-minute average)	

If evacuation is initiated, the Company will establish a Reception Centre at a designated location. The Public Protection Group Supervisor will dispatch a representative to open the Reception Centre and record the arrival of evacuated stakeholders.

Immediate evacuation of the area must take place.

To ensure public safety, Company personnel will coordinate their public safety actions with the Local Authority.

Evacuation outside of the EPZ

1 ppm (3-hour average) 0.3 ppm (24-hour average)

The evacuation of the public outside of the EPZ may be required if the incident cannot be controlled and/or H_2S , SO_2 , or other toxic releases concentrations reach the maximum allowable limits adjacent to the EPZ boundary. In the unlikely event that public protection measures are required beyond the EPZ, they will be conducted in accordance with the licensee's arrangement with the local authority.

Alberta Municipal Affairs and Alberta Emergency Management Agency, local Disaster Services and the Alberta Regional Health Authority, in conjunction with the industrial operator, shall coordinate the evacuation outside the EPZ in accordance with the Energy Resources Industry Emergency Support Plan. The Company shall provide the necessary personnel and equipment deemed necessary to assist. The AER shall be available for assistance if required.

lanition

Ignition is the final means of protecting the public when evacuation is impractical, and the safety of the public/Company personnel is threatened. The decision to ignite a release will be made in conjunction with the Incident Commander and an AER Representative, if time permits.

If an immediate threat to human life exists and there is not sufficient time, the Incident Commander is authorized to ignite the release. This decision to ignite will be fully supported by Management.

Company personnel are expected to take immediate steps to prepare for ignition at the earliest signs of a release or a well control problem to ensure there will be no delay.

The company must:

- Ensure that appropriate ignition equipment is available during all operations.
- Assign the decision-making authority to ignite the release to a licensee representative on-site.
- Ignite a sour gas flow to atmosphere in accordance with the Assessment and Ignition Criteria
 Flowchart
- If an uncontrolled release is ignited to protect the public, continuous monitoring for SO₂ or H₂S in the surrounding area would determine if public evacuation becomes necessary.



The ignition team must be certified in sour well ignition and properly equipped to ignite the well within the planned time limits for which the EPZ was designed. Certification in ignition training may be obtained from Enform or from other training facilities that have a comparable program.

AER senior staff may make the decision to ignite a release if the licensee does not agree to ignite the release or is not prepared to take the necessary steps.

Ignition doesn't negate the need for continuing with evacuation as there may be residual pockets of H₂S or SO₂ in the area

It is important that mobile air quality monitoring be dispatched as quickly as possible to the emergency site because specialized monitoring equipment can more accurately record readings in the emergency area.

Assessment and Ignition Criteria Flowchart

During the release of H₂S, assess the following:

• risk of exposure and injury to the public or response workers

• proximity to residences, public facilities, towns, or urban centres

• status of evacuations

• fire hazard after ignition to adiacent forested or cropland areas

· safety of the ignition team (hazard area identification, protective gear)

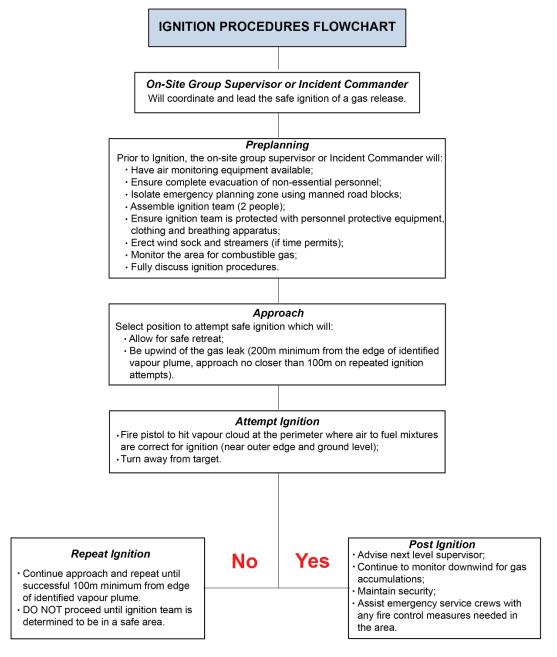
Ignite the release if any of the following conditions are met:

- Required evacuation of the response zones has not occurred
- Monitored H₂S concentrations exceed 10 ppm over a 3-minute average in unevacuated parts of the EPZ. IF MONITORED LEVELS ARE DECLINING, THE SITUATION NEEDS TO BE CONTINUOUSLY ASSESSED FOR IGNITION.
- Monitored H₂S concentrations exceed 1 ppm (1-hour average) in urban density developments
- · Monitoring is not possible due to weather or other unforeseen circumstances
- The release cannot be brought under control in the short term (ignition decision will be made in consultation with the AER)

Ignition must occur within 15 minutes of the decision to ignite.

- . Carry out preignition planning
- Attempt ignition





9.2.7 NOTAM

It may be necessary for NAV Canada to issue a Notice to Airmen (NOTAM) to advise pilots of restrictions in the airspace above the EPZ or to close the airspace for a certain radius from the release (a no-fly zone). NOTAMs or closure of airspace may be requested by the AER at a Level 2 or 3 emergency.



9.2.8 Government Roles and Responsibilities

Provincial Emergency Coordination Centre (PECC)

The Provincial Emergency Coordination Centre (PECC) plays a crucial role in managing and coordinating emergency responses at the provincial level. Its primary function is to provide leadership, support, and resources to local governments and emergency management agencies during emergencies. to ensure an effective disaster response.

PROVINCIAL EMERGENCY COORDINATION CENTRE	
Acts as the central hub for coordinating emergency response efforts across municipalities and regional authorities.	
Supports local Emergency Operations Centres (EOCs) when incidents exceed local capacity by providing resources, guidance, and reinforcements as needed.	PROVINCIAL EMERGENCY COORDINATION CENTRE
Coordinates with federal agencies, municipal governments, and Indigenous communities.	N
Ensures a unified provincial response during major disasters.	CE
Identifies and distributes critical resources such as personnel, equipment, and financial aid to affected areas.	Z
Coordinates transportation and supply chain logistics to deliver emergency relief efficiently.	
Works with public and private sector partners to ensure rapid deployment of emergency supplies.	M
Facilitates inter-agency communication to ensure a consistent flow of information.	=
Acts as the official provincial source for emergency updates, warnings, and advisories to the public, media, and government leaders.	R
Maintains situational awareness through GIS mapping, weather tracking, and damage assessments.	
Advises the provincial government on emergency response strategies.	S
Helps in declaring states of emergency when required.	ζ
Ensures emergency response aligns with provincial laws, regulations, and emergency management frameworks.	E
Works with federal agencies (e.g. Public Safety Canada) to comply with national emergency protocols.	SG
Develops and enforces emergency response policies, including evacuation procedures and disaster relief measures.	
Oversees response efforts during emergencies, such as natural disasters, pandemics, or industrial incidents.	EN
Supports evacuation coordination, sheltering, and emergency aid distribution.	 -
Assists in long-term recovery efforts, including rebuilding infrastructure, financial aid distribution, and community support programs.	∀ 13
Works on resilience planning to mitigate future risks and improve disaster preparedness.	Ĭ
Coordinates emergency alerts and public service announcements.	≥
Provides safety guidelines and preparedness training to communities.	
Engages with media, stakeholders, and the public to ensure clear and accurate communication.	
Works with municipal governments, Indigenous communities, NGOs, and private sector partners.	
Liaises with the federal government for additional support and funding.	
Collaborates with law enforcement, military, health agencies, and emergency services.	



Alberta Energy Regulator

The AER ensures the safe, efficient, orderly, and environmentally responsible development of hydrocarbon resources over their entire life cycle. This includes allocating and conserving water resources, managing public lands, and protecting the environment while providing economic benefits for all Albertans.

The AER will provide full-lifecycle regulatory oversight of energy resource development in Alberta - from application and construction to abandonment and reclamation, and everything in between.

The AER is the lead government agency that initiates and oversees government response. The AER can provide assistance to alert other applicable government and emergency response agencies.

ALBERTA ENERGY REGULATOR Acts as lead provincial government organization in petroleum industry emergency responses Review and approve licensee ERPs. Participate in selected licensee ERP exercises. Review and recommend changes to ERPs. Participate in validation and testing of ERPs. Maintain a 24-hour emergency contact number where resources can be accessed for a response related to Emergency Response Plans. Receive information pertaining to petroleum industry incidents. Determine the emergency level of an incident through consultation with the licensee. Dispatch AER representative to the site of the incident, as required. Confirm that local resources have been notified as appropriate. Identify and request initial provincial resources to support the incident, to be coordinated at the regional level if necessary, through the REOC. Notify EDGE to carry out notification in accordance with this plan. Provide Situation Reports to AEMA if requested. Send AER representative to the On-Site Command Post. Establish an EOC at the local AER Field Centre until the licensee or local authority establishes a MEOC. Dispatch an AER Regulatory Liaison to the MEOC or POC and issue timely media releases in conjunction with the licensee and PAB. Request, through AEMA, the deployment of the other provincial Government staff be sent to the MEOC or the local Field Centre EOC. Request a local authority liaison officer to be present at the MEOC if necessary. Carry out investigations. Provide timely situation reports, through AEMA, to other Government departments activated by this plan. Notify all participants when the event has concluded and there is no longer any hazard to the public. Complete reporting protocols. As part of the lessons-learned process, recommend any mitigating actions that may reduce the event from re-occurring. Establish processes to receive and address community concerns. In consultation with AEMA, review and recommend updates for the ERP.



Alberta Environment and Parks

ALBERTA ENVIRONMENT AND PARKS	0
Maintain a 24-hour emergency contact number where resources can be accessed for a response related to Emergency Response Plans.	AND
Provide oversight role in ensuring air quality monitoring needs and activities associated with public safety around the event site are	
adequately addressed by the licensee.	Z
Ensure the air quality monitoring log is being maintained.	ENVIRONMENT PARKS
Participate in the evaluation of the incident and the potential area at risk from product releases.	Zω
Provide assistance in monitoring discharges and ensuring appropriate mitigation and response actions are taken to reduce the impact	S × ×
of liquid releases for land-based spills and to ensure watercourses are protected.	₹
Assist in notifying Fish and Wildlife personnel of the hazard.	ᇳᅀ
Monitor environmental recovery, when required.	_
Compile and maintain environment related records and log.	BERTA
Request and review environmental impact assessment if necessary.	띭
Carry out investigation, when required, having regard for the existing investigative protocols and procedures.	ij
Investigate non-compliance with the EPEA and the Water Act. The investigation may be coordinated with, or independent of any other	⋖
investigation in relation to the incident.	

Alberta Agriculture and Forestry

ALBERTA AGRICULTURE AND FORESTRY	ND
Maintain a 24-hour emergency contact number where resources can be accessed for a response related to Emergency Response Plans.	IRE A
Assist the industrial operator and/or the local authority in establishing and maintaining roadblocks. If requested.	ן≻.
Assist in notifying Forestry personnel of the hazard.	
Assist in locating transients for evacuation in cooperation with licensee and local authority.	
Inform transients within the hazard area of the incident and safety measures to take including evacuation details as applicable.	A AGI FOR
Fight any fires started as the result of the product release within the Forest Protection Area.	RT,
Compile and maintain event records and log.	BE
Conduct forest impact assessment.	ALI
Complete reports concerning the incident.	

Occupational Health and Safety

The Occupational Health and Safety Branch operates within the Ministry of Jobs, Skills, Training, and Labour. OHS promotes health and safety through partnerships, resources, education and enforcement of the Occupational Health and Safety Act.

The Occupational Health and Safety Act sets standards for the protection of workers throughout the Province. Employers are required to ensure the health and safety of workers on the site.

OHS is responsible for the compliance policy and procedures implemented as a result of employee injuries/or death. Compliance policies and procedures are updated periodically.

OCCUPATIONAL HEALTH AND SAFETY	
Maintain a 24-hour emergency contact number where resources can be accessed for a response related to Emergency Response Plans.	
Maintain the capacity to send an OHS officer to the POC on a 24-hour a day, 7 day a week basis.	
Monitor the health and safety aspect of applicable occupations within the hazard area to ensure that the necessary precautions are	
taken to protect worker safety.	Ö
Compile and maintain health and safety related records and log.	
Monitor lease holder/contractor's plan to determine if site is safe for recovery workers.	
Investigate non-compliance with the Occupational Health and Safety Act. The investigation may be coordinated with, or independent of,	
any other investigation in relation to the incident.	

2025 Section 9.0 Page 16 of 23



Local Authority

Municipal Emergency Plans

Municipal Emergency Plans vary depending on the circumstances of each community. Generally, they deal with the following:

- Authority of the Plan.
- Implementation.
- Direction and Control.
- Organization and Functions.
- Tasks.
- Communications.
- Transportation.
- Health Units.

- Hazard Analysis.
- Medical Service.
- Police.
- Fire Service.
- Public Works.
- Social Services.
- Evacuation and Reception.
- •

LOCAL AUTHORITY

- ☐ Maintain a 24-hour emergency contact number where resources can be accessed for a response related to Emergency Response Plans.
- ☐ Conduct a hazard assessment of petroleum facilities and operations.
- ☐ Work with the operator to effectively prepare for a petroleum industry incident. Provide input to the industrial operator's Emergency Response Plan to ensure it is compatible with the municipal emergency plan (MEP).
- ☐ Include preparedness and response information concerning facilities and operations in the MEP.
- ☐ Train personnel to carry out function as assigned by the MEP or procedures.
- Assess emergency incident and evaluate operator response with the AER.
- ☐ Activate the emergency public warning system to alert people to life threatening hazards, as required.
- ☐ Initiate public protection option, as required if resources are available.
- Maintain communication with industrial operator during emergency.
- □ Activate the MEP, in accordance with local authority policy.
- Manage the local authority's emergency response.
- Dispatch a representative to the incident command post, if resources are available.
- ☐ Activate the MEOC, as required by the municipality.
- Coordinate with the industrial operator, the establishment and the administration of reception centres for evacuees, as required.
- Assist with the establishment of roadblocks and maintain them if resources are available.
- Assist with fire protection (secondary fires only).
- ☐ If necessary, declare a local state of emergency, as determined by the local authority.
- Coordinate a public information service, including the use of the news media to inform and instruct the public of the emergency and of any protective actions to be taken.
- Provide timely news releases.
- Inform Municipal Affairs, Emergency Management Alberta and the public when the emergency is over in accordance with the Energy Resources Industry Emergency Support Plan.
- ☐ Conduct a damage assessment to the extent of government infrastructure (roads/bridges).
- Compile a municipal log.
- ☐ Properly shutdown MEOC as appropriate.
- Conduct municipal incident debriefing.
- ☐ Participate in multi-agency debriefings if resources are available.
- ☐ Review and update the municipal emergency plan.
- ☐ Communicate any changes to the plan to all plan holders.
- Track costs associated with the response.



Emergency Services: Police, EMS, and Fire Fighting

EMERGENCY SERVICES	
Understand the hazards associated with the petroleum facilities and operations within the area.	
Work with the operator to effectively prepare for a petroleum industry incident.	
Understand the response role when there is a private and public-sector response.	l
Train personnel to carry out their functions when there is an incident.	l
Establish contact with the industrial operator.	l
Prior to dispatching staff to scene, determine the hazards associated with the incident.	လ္
Determine where roadblocks are established.	SERVICES
Where applicable, maintain roadblocks as necessary.	. ≅
Determine the direction of approach to the incident.	ij
Determine if there are any injuries.	
Find out what response and public protection actions have been taken by the operator.	ည်
Initiate public protection option, when necessary.	EMERGENCY
Identify what resources are required and where they should be staged.	8
Determine the location of the On-Site Command Post.	H
Respond and assess emergency incident.	Ē
Communicate to REOC and provide situation reports as required.	l
Dispatch a representative to the REOC, when it is established to coordinate the response.	l
Assist with fire protection, where applicable.	l
Provide emergency medical assistance, as required.	
Compile response logs.	1
Participate in municipal incident debriefing.	1
Participate in multi-agency debriefings.	



Alberta Emergency Management Agency

The Alberta Emergency Management Agency is a division of the Ministry of Municipal Affairs and Housing. AEMA leads the coordination, collaboration and co-operation of all organizations involved in the prevention, preparedness, and response to disasters and emergencies.

AEMA has its headquarters in Edmonton and incorporates several domains of practise which encompass; emergency response, disaster recovery programs, business continuity, government ERPs, grants and funding, and municipal wildfire assistance programs.

The AEMA management structure is divided into two divisions: Provincial Operations, and Public Safety initiatives. Each separate division has five separate branches who report to an executive director. A Director oversees all activities of the Agency.

AEMA maintains a 24-hour a day, 7 day a week Agency Response and Readiness Centre (AARC) that monitors and maintains contact with various regional and local authorities. This centre is the central point of contact for the collection, evaluation, and dissemination concerning a single incident or for multiple incidents. The centre is responsible for coordinating an initial response at which time it will change roles into an active management centre known as the Provincial Operations Centre (POC). The POC is responsible for establishing and maintaining contacts with federal assistance and agencies.

55010	tailed and agonolog.	
	ALBERTA EMERGENCY MANAGEMENT AGENCY	>
	Act as the provincial coordinating agency in petroleum industry emergency responses as per the Emergency Management Act.	AGENCY
	Make the plan available to stakeholders.	Έľ
	Train provincial personnel to carry out functions as assigned by their emergency plan or procedures.	AG
	Communicate changes to the plan with plan holders.	Ļ
	Maintain 24-hour a day, 7 day a week duty manager system.	EMERGENCY MANAGEMENT
	Assist in the planning and coordination of exercises with the AER.	EN
	Confirm AER has been notified.	٩G
	Conduct the Initial Response Report (IRR) notification.	Ž
	Obtain a situation report from the AER, EPA, local authority, etc.	MA
	Confirm the level of emergency.	\
	Activate the Provincial Operations Centre (POC) as required.	NC
	Notify the appropriate provincial officials as per standard operating procedures.	35
	Release consolidated SITREPs in accordance with the Energy Resources Industry Emergency Support Plan.	:R(
	Coordinate the Government of Alberta response including requests for provincial/federal resources.	ME
	Provide ongoing situation reports or briefing notes to appropriate provincial officials.	
	Notify partners and stakeholders when the event is over.	T/
	Conduct the post-incident assessment.	EF
	Communicate any changes to the plan to all plan holders.	ALBERTA
	Complete documentation or reporting in relation to the activation of the Energy Resources Industry Emergency Support Plan and the	A
	incident.	

2025 Section 9.0 Page 19 of 23



Alberta Health Services

ENVIRONMENTAL PUBLIC HEALTH ROLES AND RESPONSIBILITIES

Alberta Health Services (AHS) - Environmental Public Health (EPH) roles and responsibilities in public health emergency preparedness and response to the oil and gas industry are outlined below. The provision of services during an emergency depends upon our assessment of legislative responsibilities, impact to services, and business continuity.

EPH will endeavor to:

- Participate with the Licensee in the development of their Emergency Response Plans as it relates to the Environmental Public Health Program's role and responsibility.
- Provide the AHS Zone Single-Point-of-Contact (SPOC) emergency phone number to enable the Licensee to notify and alert the Zone of an emergency. From the initial notification or alert, AHS emergency response will fan out to and coordinate with other AHS programs and facilities as necessary. The 911 EMS services remain independent of the Zone SPOC notification/alert process.
- Participate with stakeholders in preparedness training and exercises associated with a Licensee's simulated activation of an Emergency Response Plan in which EPH has a role and responsibility.
- Participate in public information sessions during the Licensee's Emergency Response Plan development process when appropriate and as resources allow.
- Provide guidance to stakeholders and local municipal authorities in identifying sites suitable for establishing and operating an evacuation centre and/or reception centre, including operational requirements.
- Provide guidance to stakeholders on substances that may affect public health in consultation with the Zone Medical Officer of Health (MOH), including Alberta Health Acute Exposure Health Effects for Hydrogen Sulphide and Sulphur Dioxide information.
- Conduct assessments, inspections and give regulatory direction, when appropriate, to ensure the
 requirements of provincial legislation and EPH program areas of responsibilities for public health
 protection and disease prevention are maintained.
- Notify the Zone Medical Officer of Health of any incident affecting or potentially affecting other AHS
 programs or facilities. The Zone MOH will notify and coordinate emergency response in other
 program areas and facilities as necessary.
- Establish EPH emergency management operations, when appropriate, to support regional response efforts and liaise with the Government Emergency Operations Centre, Municipal Emergency Operations Centre and/or Industry Emergency Operations Centre, if needed.
- Assist the Zone Medical Officer of Health, local municipal authority, and Public Information/Communication officers in the development, issuance, and rescinding of public health, public evacuation and shelter-in-place advisories.
- Provide guidance to stakeholders on matters relating to evacuation of the public and/or public facilities, and the re-occupancy of those evacuated areas or facilities.
- Record and respond to health complaints or concerns from the public during and following an incident.
- Participate in stakeholder debriefings as necessary.

http://www.albertahealthservices.ca/assets/wf/eph/wf-eh-oil-gas-epr-roles.pdf

Updated: February 2016



First Nations and Inuit Health

FIRST NATIONS AND INUIT HEALTH Before the Event. ☐ Maintain 24-hour emergency contact numbers where resources can be accessed to carry out a response related to the Energy Resources Industry Emergency Support Plan. Participate in provincial and industrial operators' preparatory training and exercises where feasible. FIRST NATIONS AND INUIT HEALTH ☐ Liaise with other federal departments where needed. **During the Event** ☐ Provide environmental public health advice to health care or special care facilities on First Nation reserves related to adverse environmental conditions resulting from a petroleum incident. Investigate environmental public health related complaints from on-reserve Indigenous communities. Provide guidance on public health advisories, public evacuation and sheltering for first nation communities. In addition to the primary roles above, the following assistance will be provided during an event: Provide representation at the off-site REOC or when established, if requested and if available Assist with messaging to provide accurate information to the public concerning the incident Provide guidance and assistance at Evacuation Centre(s) to help ensure that public health standards are being met. Provide health related information about toxic chemicals and by-products when the products or their make-up are known and reported. Provide guidance on rescinding and declaration of public evacuation and on allowing re-occupancy – consultative capacity only. Provide advice to the REOC on existing or potential health effects associated with the incident where possible When possible work with all other responders to establish a single Regional Emergency Operations Centre (REOC) After the Event Compile and maintain environmental public health related documents on inspected facilities. Participate in PIA (Post Incident Assessments) Provide guidance on assessing and mitigating public health risks following an upstream petroleum incident.

Alberta Transportation

ALBERTA TRANSPORTATION	N
Maintain a 24-hour emergency contact number where resources can be accessed for a response related to Emergency Response Plans.	
Respond to Dangerous Goods transportation emergencies in Alberta.	TA
Manage transportation route closures.	띪꽁
Provide assistance with the closure of provincial highways in the establishment of suitable detour routes.	E E
Provide advice and assistance with the procurement of roadblock equipment.	Ϋ́
Ensure that all requests and reports are completed.	≥
Work with the appropriate local authority to facilitate the restoration of roadways.	_ _

Public Affairs Bureau

PUBLIC AFFAIRS BUREAU	_
Maintain a team of trained Public Affairs personnel.	_
Confirm distribution of AER messaging. Provide support as required.	AE
Activate Crisis Communication Plan and Crisis Communications Response.	а.
Advise AEMA if media boardroom will be required for media events.	
Coordinate key messaging with the AER.	





Alberta Justice and Solicitor General

ALBERTA JUSTICE AND SOLICITOR GENERAL	Ļ
Maintain the list of critical infrastructure in the Province of Alberta.	ERA
Maintain and regularly test the emergency notification system.	岁
Maintain awareness of threats, vulnerabilities, and risks related to human induced intentional hazards.	GEN
Notify Government department of concerns arising from the effects of the incident on critical infrastructure.	œ
Advise other Government departments of modifications to procedures if the incident was intentionally caused.	2
Provide technical expertise to all stakeholders in the event of an intentional incident and advise appropriate Government officials of	CIT
potential future targets.	Ä
Ensure that effects on critical infrastructure have been resolved.	SO
Recommend changes to critical infrastructure plans to mitigate future events.	

9.2.9 Alberta Pressure Equipment Incidents

ALBERTA BOILERS SAFETY ASSOCIATION	
Review, accept and register pressure equipment designs and construction procedures that relate to pressure equipment.	
Issue certification of inspection permits for pressure equipment before the equipment is placed into service.	
☐ Ensure that regular inspection of in-service pressure equipment is conducted.	
 Keep records for pressure equipment that has been registered for use, or manufactured, in Alberta. Examine, certify and register Pressure Welders and Welding Examiners, Power Engineers, and Pressure Equipment Inspectors. 	
□ Examine, certify and register Pressure Welders and Welding Examiners, Power Engineers, and Pressure Equipment Inspectors.	
Authorize and monitor, through quality management system, organizations that have been permitted to conduct some of the activities	•
subject to the regulations.	
Conduct safety education and training.	
Receive notification of an incident.	
Investigate accidents or unsafe conditions that involve pressure equipment.	

Accidents that must be reported include:

- All accidents involving pressure equipment (boiler, pressure vessel, pressure piping system, fitting, or thermal liquid heating system) that result in damage to property or injury to, or death of, a person.
- Accidents not caused by pressure equipment but having some impact on pressure equipment. Incidents above must be immediately reported to the following:
 - The Company's Pressure Equipment Chief Inspector.
 - Alberta Boilers Safety Association (ABSA) Office or ABSA Safety Codes Officer. After hours, call the Edmonton Switchboard. The message will provide after-hours phone numbers for contact.

For non-critical incidents, notify the Company's Chief Inspector and ABSA by the next business day. As soon as possible, send a full written report via mail (See ABSA Accident Reporting Form AB-97).

Form 97:

https://www.absa.ca/unsafe-condition-accident-fire-reporting/ab-97-accident-report-form/

2025 Section 9.0 Page 22 of 23



9.2.10 Reporting Electrical Incidents

Section 15 of the Administrative Items Regulation requires that electrical incidents, as well as fires which are suspected to be of an electrical origin, be reported as soon as practicable to the technical Administrator for the electrical discipline: either directly or via a safety codes officer. The regulation also requires that nothing be tampered with at the scene of an incident until a safety codes officer has granted permission and determined whether further investigation is required.

Incidents should be reported to a safety codes officer representing the inspection authority having jurisdiction (i.e. accredited municipality, accredited corporation or Alberta Municipal Affairs for non-accredited areas of the province).

In addition to reporting an electrical incident, Section 48 of the Safety Codes Act also requires that when an incident is investigated, the corresponding investigation report must be submitted to the technical Administrator for the electrical discipline.

9.2.11 List of Abbreviations

Acronym	Name
AAF	Alberta Agriculture and Forestry
ABSA	Alberta Boilers Safety Association
AEMA	Alberta Emergency Management Agency
AER	Alberta Energy Regulator
AHS	Alberta Health Services
AT	Alberta Transportation
СМО	Consequence Management Officer
EPA	Ministry of Environment and Protective Areas
EPEA	Environmental Protection and Enhancement Act
Local Authority	County, Municipal District, Special Areas
MEP	Municipal Emergency Plan
МОН	Medical Officer of Health
PAB	Public Affairs Bureau
POC	Provincial Operations Centre
Regulatory Authority	Alberta Energy Regulator
SOLGEN	Alberta Justice and Solicitor General.



9.3 BRITISH COLUMBIA

9.3.1 Classification: Consequence Level

Natural Gas Release and Consequence Levels

When the gas release exceeds 2,000 m³ or when the duration of the release is uncertain, and the volume is unknown, a Consequence Level of 2 or more must be selected based on the migration of gas beyond lease.

When a sour gas product is released, any measurement of 10 ppm or greater measured at 1 meter from the source of the leak requires reporting as an incident. Protective actions to prevent public access must be taken. This requirement applies to leaks from any source, including surface casing vents.

For Kicks and Induced Seismicity

The BCER requires that permit holders classify a magnitude 4.0 or greater induced earthquake within 3 km of oil and gas operations; or any earthquake which is felt on surface within a 3 km radius of oil and gas operations as a Level 2 or higher probability.

Seismic activity has the potential to result in future damage to equipment. The reporting of seismic activity assists permit-holders and the Regulator to monitor equipment and reduce the possibility of such incidents.

Well Kicks	Induced Seismicity
Consequence Level 2: Kick size in excess of 3 cubic meters or shut-in casing pressure in excess of 1000 kpa.	Consequence Level 2: Occurrence of magnitude 4.0 or greater induced earthquake (felt at surface) Probability must be recorded as 2 or higher
Consequence Level 3: Kick size in excess of 65% of current kick tolerance or shut-in casing pressure in excess of 65% current MACP.	Consequence Level 3: Occurrence of magnitude 4.5 or greater induced earthquake (felt at surface) Probability must
Consequence Level 4: Kick size in excess of 85% of current kick tolerance or shut-in casing pressure in excess of 85% current MACP.	be recorded as 2 or higher. Multiple felt events must also be recorded at this level.

Security Incidents and Consequence Levels

Consequences for security-based incidents will typically be determined by the outcome and impact on operations – a piece of equipment is vandalized or stolen which affects the ability to continue some day to day or scheduled activity. There may be occasions when a permit holder is advised of a credible threat and takes additional precautions that have some impact on operations, such as shutting in a well or facility, or significantly enhancing security precautions that affect normal activities. In these cases, a Consequence Level of 1 or greater should be selected.

Consequence Levels Explained

Consequence 0 – "No consequential impacts" – At this level, there are no reportable spills, no equipment damages, and no reason to interrupt normal operations.

Consequence 1 – At this level, there has been some minor effect on operations; a spill had to be cleaned, equipment fixed with a minor repair, etc. For a sour product spill, H_2S must be under 100 ppm at the source point of the spill with no detectable levels off lease. Total incurred costs are typically under \$50,000.

Consequence 2 – At this level impacts have become more pronounced; there may be some loss of production capability (temporary stoppages, reduced output, etc.) or the incident may have, or has the potential to extend off lease / beyond ROW. Any sour product of 100 ppm or greater must have a consequence level of 2 or more indicated due to the threat to workers, public or environment.

2025 Section 9.0 Page 1 of 25



Consequence 3 – At this level impacts have had a noticeable effect on operational capabilities, affected public or environment, or have raised significant concerns for operational safety - such as malicious equipment tampering, or a pattern of failure in an equipment type or process.

Consequence 4 – At this level, operations would typically be suspended or impossible to continue, at least in the short term. Critical equipment would be damaged / destroyed.

Classification: Probability Level

Probability 0 – "Will not escalate; no hazard; no monitoring required" – This level is typical of a fixed quantity spill that is completely contained by a berm or impoundment, or able to be immediately remediated. A probability of zero can not be assigned if the source of the spill has not been controlled, accurately identified, or the extent of the spill fully defined. Spills to water are highly unlikely to ever have a probability of zero given the likelihood of spill migration and impacts.

Probability 1 – "Escalation highly unlikely; controlled or imminent control" - Small equipment failures that are easily isolated would be rated at this level. Turning off power or closing valves to / from the equipment bring the incident under control, with very little possibility of further damage or release of product.

Probability 2 – "Escalation unlikely; controlled or likely imminent control" - This level is typical of incidents where the cause of the incident is easily determined, and control measures are able to be enacted promptly and successfully.

Probability 3 – "Escalation possible; under or imminent control" - Pit gains of 10 m³ or greater during a drilling operation, or a fire on site that was of limited scope – such as a fire in a holding tank or generator shack would normally be ranked as a Probability 3. Additional considerations in this example would be the potential for expansion such as to other nearby equipment or forested areas, or possible need for an evacuation of a public area or residents. Repeating, related or similar security incidents, such as ongoing vandalism targeting a particular site or type of operation would use this probability level.

Probability 4 – "Uncontrolled, with control unlikely in near term" - An equipment failure that has caused uncontrolled release of product beyond the ability of the operator to control – such as a facility explosion, a pipeline rupture with uncontained product moving into the environment, or a fire that is spreading / growing without possible containment with the resources at hand would all be classified as Probability 4.

BCER Incident Reporting Guidelines

Minor Incident

- Those with a total score of two or less on the Classification Matrix, permit holders are responsible
 for directly entering information into the Regulator's on-line reporting tool Kermit within 24-hours of
 the incident.
- If the minor incident involves a leak or a spill, EMCR must also be called for the Ministry of Environment & Climate Change Strategy to be notified.
- The incident must be reported by electronic submission by the permit holder incident representative. A copy of the Form A: Minor Incident Notification Form and the Incident Classification Matrix can be found on the Emergency Response and Safety section of the Regulator's website to help the permit holder gather the information required before entering it online. The matrix and any photos or any other relevant documentation can be attached to the online submission.

Level 1, 2, or 3 Emergency

If the incident receives a score of Level 1, 2, or 3, it must be reported immediately (within 1 hour) to the BCER by calling EMCR's incident reporting line.

For incidents that involve the release of a reportable volume / product – as defined under the Spill Reporting Regulation – a Dangerous Goods Incident Report (DGIR) must be obtained from EMCR.

2025 Section 9.0 Page 2 of 25

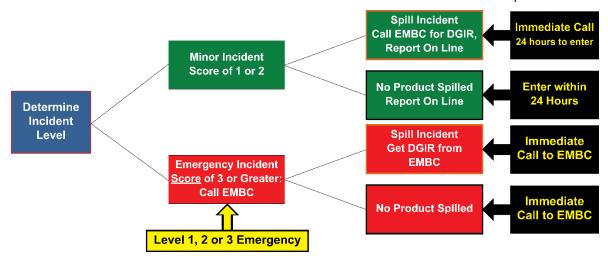


Note that incidents involving a form of transportation (truck or rail) also have reporting requirements under federal Transportation of Dangerous Goods (TDG) regulations, and some products have significantly smaller reportable thresholds.

When a sour gas product is released, any measurement of 10 ppm or greater measured at 1 meter from the source of the leak requires reporting as an incident. Protective actions to prevent public access must be taken. This requirement applies to leaks from any source, including surface casing vent assemblies.

A release of any product into moving water is considered to be an off lease/right of way spill.

Incidents scoring 3 or higher are classified as emergencies and are reported through EMCR. The Regulator's duty emergency officer will be notified by EMCR and will directly contact the permit holder (or representative) who has assumed the on-scene incident commander role. A DGIR is also obtained if there is release of product.



Permit Holder Post-Incident Report

Form D: Permit Holder Post-Incident Report Form must be submitted by the permit holder to the BCER within 60 days for:

- 1. Any Level 1, 2 or 3 emergency incident: complete Part A-P.
- 2. Any pipeline incident (including minor notification): complete Part A-U.
- 3. Upon request by the BCER.

This report and accompanying documentation can be found on the BCER's website under Emergency Response and Planning and must be emailed electronically to EMP@bc-er.ca.

Other Reportable Incidents

The BCER's Incident Risk Classification Matrix is designed to assist permit holders in determining which incidents must be reported. However, some incidents, which do occur, may not meet the criteria outlined in the Incident Risk Classification Matrix but still require notification to the BCER as a minor notification.

These include the following:

- Spills or release of hazardous substances which are not provincially regulated, such as radioactive substances.
- Major damage to oil and gas roads or road structures.
- Drilling kicks when any one of the following occur:
 - Pit gain of 3 m3 or greater.
 - Casing pressure 85% of MA.



- 50% out of hole when kicked.
- Well taking fluid (LC).
- Associated spill.
- General situation deterioration, e.g. leaks, equipment failure, unable to circulate, etc.
- Pipeline incidents, such as spills during construction phase, exposed pipe caused by flooding, pipeline over pressure, failure (without release) of any pressure control or ESD device during operations.
- Security related issues which are relatively minor; such information may be required for tracking and monitoring purposes only.

Downgrading the Emergency Levels and Stand-Down

Any discussions regarding downgrading of the incident Emergency Level classification must be preceded by a thorough review of the following considerations:

- Has the release been stopped?
- Is the hazard mitigated?
- Have all public safety threats been eliminated?
- Are there any remaining risks that could escalate if the Emergency Level was downgraded?
- Has an appropriate environmental monitoring plan been initiated (surface water, groundwater, soils, wildlife, vegetation, air quality monitoring)?
- Has environmental data been collected, analyzed and is it available to be submitted to the Regulatory Authority?
- Has an environmental mitigation plan been developed based on the data collected and has it been evaluated relative to potential residual impacts?

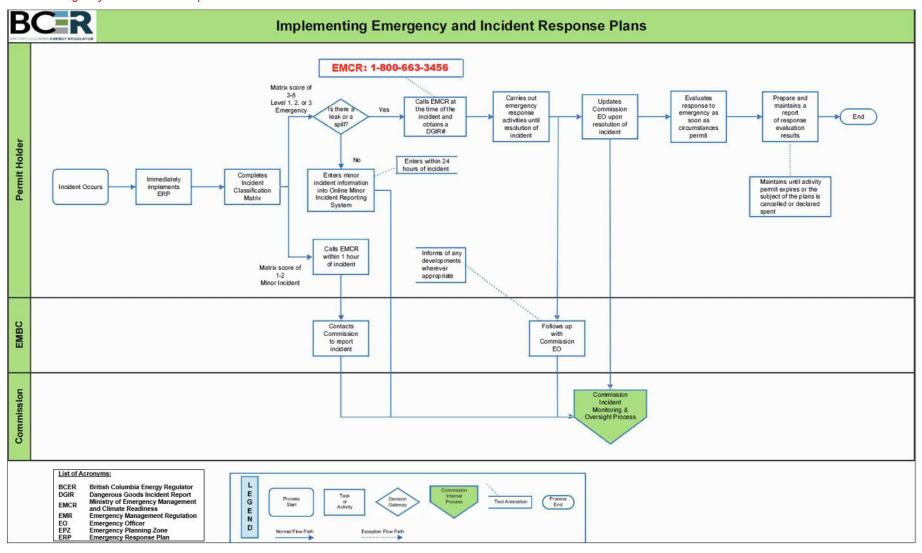
If there is agreement on the above points between the Incident Commander, EOC Director and the Regulatory Authority then a coordinated discussion with the Regulatory Authority can be held to obtain approval to downgrade the emergency to the appropriate level.

Once site restoration is deemed appropriate and incident facts justify the relaxation from a state of readiness or alert, the Company must make the decision to stand-down the emergency in consultation with the Regulatory Authority.

The Company must keep all notified stakeholders and evacuated persons informed of the status of an emergency.



BCER Emergency and Incident Response Flowchart





9.3.2 Spill Reporting

For land-based spills during daytime operations, responses must be initiated within six (6) hours from the time spill is discovered.

For spills occurring on weekends or during the night, responses must be initiated within twelve (12) hours from time of discovery.

As per the Environmental Management Act, all spills (including type, size and location) must be reported immediately to the Ministry of Emergency Management and Climate Readiness (EMCR).

Notification Requirements

The person who had possession, charge or control of a substance immediately before it is spilt shall immediately report to EMCR or when not practical to the local police or RCMP. He/she shall take all reasonable and practical action and have due regard for the safety of the public to stop, contain and minimize the effects of the spill.

A report under this section must include, to the extent practicable, the following information:

- a) the contact information for
 - i) the individual making the report,
 - ii) the responsible person in relation to the spill, and
 - iii) the owner of the substance spilled;
- b) the date and time of the spill;
- c) the location of the spill site;
- d) a description of the spill site and the surrounding area;
- e) a description of the source of the spill;
- f) the type and quantity of the substance spilled;
- g) a description of the circumstances, cause and adverse effects of the spill;
- h) details of action taken or proposed to comply with section 91.2 (2) [responsible persons spill response 1 of the Act;
- i) the names of the government, federal government, local government and first nation government agencies at the spill site;
- j) the names of other persons or government, federal government, local government or first nation government agencies advised about the spill.

Please refer to the BC Environmental Management Act; Spill Reporting Regulation http://www.bclaws.ca/civix/document/id/oic/oic cur/m329 2017

BCER Spill Reporting Criteria

Where the permit holder holds or maintains rights, the permit holder must report to the British Columbia Energy Regulator, all spills of materials are identified in Section 9.1 Spill & Release Reporting Requirements.



9.3.3 Emergency Planning and Response Zones

Under Emergency Management Regulation in British Columbia EPZs are required for all sour gas facilities and HPZs are required for all other significant hazards.

The principle hazards associated with a hydrocarbon release are:

- Exposure to the toxicity of H₂S following an unignited sour gas release.
- Exposure to the toxicity of SO₂ following an ignited sour gas release.
- Exposure to flame for people located within a flammable region of a dispersing gas plume following delayed ignition of a release.
- Heat radiation from a fire following ignition of a release.

To determine the size of the response zones, response personnel should approach the perimeter of the response zone cautiously so as not to exceed the ceiling exposure limits and begin monitoring with handheld equipment at the nearest residence. Note that the ceiling H_2S exposure limit in British Columbia is 10 ppm.

From this location, the response personnel should continue to approach any additional downwind residences that may be closer to the release until the outer boundary of the response zone is determined.

Various factors will determine the extent of the EPZ/HPZ:

- The nature of the product released.
- The volume released.
- The product flow rate.
- Weather or meteorological conditions.
- Topography.

Whereas the EPZ/HPZ is used for planning purposes, and it reflects an area where significant exposure could result without prompt action, actual conditions during an incident need to be assessed to ensure an appropriate initial response. The response zones are where resources are focused during an incident to protect public safety. A licensee should also be aware that a different type and size of response zone could be established by the police if a bomb has been confirmed at the pipeline, well, or facility.

Emergency Planning Zone (EPZ)

British Columbia Energy Regulator defines an EPZ as a geographical area surrounding a well, pipeline, or facility containing hazardous product (H₂S or SO₂) that requires specific emergency response planning by the licensee. The Emergency Planning Zone may also be referred to as Hazard Planning Zone or HPZ.

Existing wells and pipelines are assessed annually to ensure the H₂S release volume calculations are based on actual operating and licensed conditions.

Hazard Planning Zone (HPZ)

Hazard planning distances are used to identify a geographical area (a hazard planning zone) within which persons, property or the environment may be affected by an emergency. The combined geographic areas of hazard (emergency) planning zones are used by the applicant or permit holder to identify an EPZ where immediate response actions are required in the event of an emergency. The HPZ is based upon the greatest hazard present, or expected to be normally present, for which the Emergency Response Plan has been developed. Section 7 of the Emergency Management Regulations defines a hazard planning distance as a horizontal distance measured from the site of an oil and gas activity that is the subject of the plan.

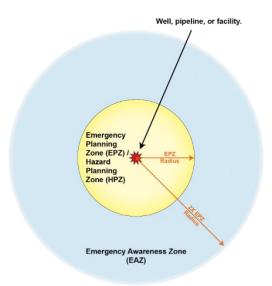


Hazard Response Zone (HRZ)

The Hazard Response Zone (HRZ) is the area affected by an incident/emergency.

Emergency Awareness Zone (EAZ)

The Emergency Awareness Zone (EAZ) is an area twice the radius of the Emergency Planning Zone.



9.3.4 Methods of Public Protection

If the health and safety of the public cannot be assured, then the Company must determine the best approach for protecting the public. Depending on the severity of the emergency, the Company will implement one of three approaches to public protection: sheltering, evacuation, or ignition.

The purpose of public protection measures is to proactively address public health and safety concerns and to take appropriate response actions to protect the public from harm. This may include removing or reducing the hazards and asking public stakeholders to shelter and/or evacuate as required.

It is the Company's responsibility to initiate public protection measures in the EPZ for any incident involving a release of sour gas product if there is potential for the release to impact members of the public. This could also include SO₂ if the sour gas release was ignited.

The type of public protection measure employed depends on the severity of the incident and/or on the monitored results in the unevacuated areas. The licensee is responsible for ensuring that appropriate emergency response procedures are in place and can be implemented, including for areas of potential impact beyond the EPZ.

2025 Section 9.0 Page 8 of 25



Affected Parties within a Predetermined EPZ

- Permanent and part-time residents, including those residing on dead-end roads, beyond a
 predetermined EPZ, where occupants are required to egress through the EPZ.
- Business owners and/or operators and industrial operators, including oil and gas operators with manned facilities inside a predetermined EPZ.
- Private and public recreational property owners and/or operators (e.g. campgrounds, trapper cabin, private cabins, etc.) in and adjacent to a predetermined EPZ.
- Public facilities and publicly used development, such as schools and community centres in or adjacent to a predetermined EPZ.
- Non-resident landowners or farmers renting land who do not dwell on the property but whose lands
 are within a predetermined EPZ. These persons must be considered in the development of the
 ERP and be advised their property lies within the EPZ.
- First Nation reserves, registered trappers, guides, outfitters, and registered grazing lease rights holders or any other rights holders if the EPZ impacts the safety or livelihood of these stakeholders.
- Oil and gas operators with unmanned assets (e.g. wells, pipelines, facilities, etc.) in a
 predetermined EPZ whose activities may be impacted in the event of an emergency.

Procedures for contacting affected parties within the HRZ or HPZ

Well Operations: Ensure the Wellsite Supervisor or delegate notifies residents, landowners / land-renters and rights holders inside the HRZ:

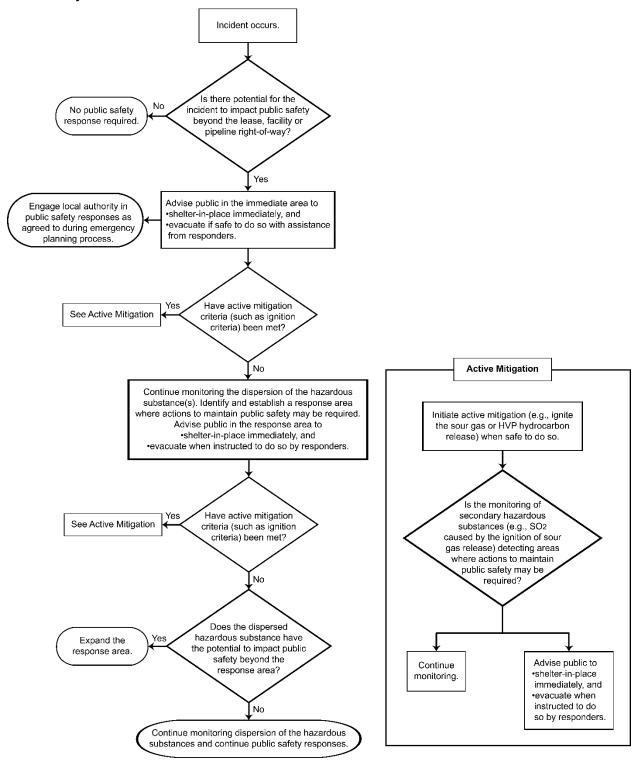
- At the beginning of drilling and initial completion operations.
- 24-hours before entering the sour zone.
- At the conclusion of drilling and initial completion operations.
- At the beginning and conclusion of other operations, including workovers, flaring, fracking, etc.

Production Operations: Ensure the Field Foreman or his delegate notifies all applicable stakeholders prior to the commencement and conclusion of any high-risk operations.

Refer to the Supplemental ERP - Field Specific Response Actions - for site-specific procedures regarding contacting and communicating with affected parties within the HPZ.



Public Safety Decision Process





Shelterina

Sheltering may be the safest and most viable public protection measure in avoiding exposure to toxic or combustible gases in the following situation:

- Incident is of relatively short duration.
- Source of a release is uncertain.
- Residents are waiting for evacuation and transportation assistance.
- Not enough time is available to safely evacuate residents.
- Evacuation poses a higher risk to evacuees.

Residents will be asked to remain inside and ensure that all windows and doors are closed and that all air intakes (furnace, stove, bathroom, and dryer vents) are plugged to limit exposure to outside air until the situation is rectified or they are further notified.

Note: For general Shelter in Place Instructions, refer the Response Action Plans Section in this document.

Evacuation

Safe evacuation is the primary public protection measure for long term H₂S, SO₂, or other toxic releases.

Evacuation of occupants inside the defined EPZ shall be prioritized in the following manner:

- 1. Individuals located immediately downwind or adjacent to the incident site.
- 2. Individuals who have indicated they have special needs or require assistance.
- 3. Individuals who cannot be contacted by telephone.

Voluntary Evacuation

For a Level 1 Emergency, residents within the EPZ will be notified and given the Voluntary Evacuation Message.

The decision to proceed with this initial notification will be made by the Incident Commander after careful consideration to ensure residents are not unnecessarily stressed.

Should area users be affected by an emergency involving Company operations, the response personnel will notify stakeholders by telephone or by personal contact with Rovers. A notice of evacuation is also placed on any unattended vehicles in the evacuation area and on doors of residences who are not home and cannot be contacted by phone.

Note: Individuals who have been identified as having special needs should be treated with priority and may choose to evacuate an area at an earlier time than other residents. These individuals may be highly responsive or sensitive to H₂S or other toxic gases.

Urgent Evacuation/Shelter

For a Level 2 Emergency or Level 3 Emergency, residents inside the EPZ will be notified and given the **Shelter in Place** or **Urgent Evacuation Message**. The Company must provide for air monitoring at the nearest downwind unevacuated residence.

Evacuation Outside of the EPZ

The evacuation of the public outside of the EPZ may be required if the incident cannot be controlled and/or H_2S , SO_2 , or other toxic releases concentrations reach the maximum allowable limits adjacent to the EPZ boundary. In the unlikely event that public protection measures are required beyond the EPZ, they will be conducted in accordance with the licensee's arrangement with the local authority.

The Company shall provide the necessary personnel and equipment deemed necessary to assist. The BCER shall be available for assistance if required.



Mandatory public safety response criteria

H₂S concentrations in non-evacuated areas	Requirement	
Above 10 ppm (3-minute average) *, or above 1 ppm (1-hour average) in an urban centre	Carry out immediate shelter-in-place and/or evacuate all persons in the area and ignite the release if the criteria are met.	
* If monitored levels in successive three-minute intervals are declining and shelter-in-place is occurring, evacuation may not be necessary. Operators should consult with the regulatory authority (if applicable) and use proper judgment in determining if evacuation is required.		
SO ₂ concentrations in non-evacuated areas	Requirement	
Above 5 ppm (15-minute average), above 1 ppm (3-hour average), or above 0.3 ppm (24-hour average)	Carry out immediate shelter-in-place and/or evacuate all persons in the area.	
Ignition assessment criteria and flowchart		

The evacuation area will be expanded in areas where monitored H₂S and/or SO₂ concentrations exceed the evacuation levels and/or resident health effects are apparent. If an uncontrolled release is ignited to protect the public, continuous monitoring for SO₂ or H₂S of the surrounding area would determine if public evacuation becomes necessary.

Company personnel cannot force a resident to evacuate their residence. Forced evacuation is possible only if the local authority declares a local State of Emergency under the Provincial ERP.

Ignition

If an immediate threat to human life exists and there is not sufficient time, the Incident Commander is authorized to ignite the release. This decision to ignite will be fully supported by Management.

It is important that mobile air quality monitoring be dispatched as quickly as possible to the emergency site because specialized monitoring equipment can more accurately record readings in the emergency area. The mobile air quality unit must be equipped to continuously measure and record wind speed and direction and to monitor H_2S and SO_2 to parts per billion (PPB). Permit holder personnel will monitor and record the air until a mobile air monitoring unit arrives or until the incident is over. At a minimum, these readings must include LEL and H_2S .

When time permits, the decision to ignite will be made jointly with the Incident Commander, EOC Director, and the BCER Representative.

The following factors should be considered before the decision to ignite proceeds:

- Safety and health risks to emergency personnel;
- Proximity of release to public areas;
- Availability of air monitoring equipment and personnel;
- Availability of ignition equipment, and training of staff in its use;
- Detectable concentration of H₂S and/or flammable gases near the source of the release and within the Emergency Planning Zone;
- Weather conditions;
- Duration of the release and potential volume;
- Impacts to wildlife; and
- Impacts to other values at risk including property, timber, or infrastructure.

All sour wells must have an ignition system such as a flare gun on site during all drilling, completion, well testing, or workover operations in the sour zone.

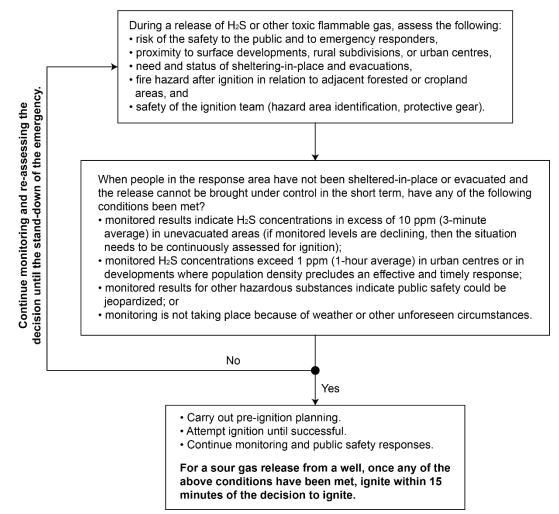
Company personnel are required to ensure that all special sour wells have a dual ignition system on site during all drilling operations in the critical zone(s) and during all completions, well testing, or work-over operations when the

2025 Section 9.0 Page 12 of 25



wellhead is off. The primary ignition system should be installed such that remote activation can be achieved from a safe location through a triggering device. The secondary system may be a manual system, such as a flare gun.

Ignition Assessment Criteria and Flowchart





IGNITION PROCEDURES FLOWCHART

On-Site Group Supervisor or Incident Commander

Will coordinate and lead the safe ignition of a gas release.

Preplanning

Prior to Ignition, the on-site group supervisor or Incident Commander will:

- · Have air monitoring equipment available;
- · Ensure complete evacuation of non-essential personnel;
- · Isolate emergency planning zone using manned road blocks;
- · Assemble ignition team (2 people);
- Ensure ignition team is protected with personnel protective equipment, clothing and breathing apparatus;
- · Erect wind sock and streamers (if time permits);
- · Monitor the area for combustible gas;
- · Fully discuss ignition procedures.

Approach

Select position to attempt safe ignition which will:

- · Allow for safe retreat;
- Be upwind of the gas leak (200m minimum from the edge of identified vapour plume, approach no closer than 100m on repeated ignition attempts).

Attempt Ignition

- Fire pistol to hit vapour cloud at the perimeter where air to fuel mixtures are correct for ignition (near outer edge and ground level);
- ·Turn away from target.

Repeat Ignition

- Continue approach and repeat until successful 100m minimum from edge of identified vapour plume.
- DO NOT proceed until ignition team is determined to be in a safe area.

No

Yes

Post Ignition

- · Advise next level supervisor;
- Continue to monitor downwind for gas accumulations:
- · Maintain security;
- Assist emergency service crews with any fire control measures needed in the area.

Adapted from AER Directive 071, Emergency Preparedness and Response Requirements



9.3.5 Drinking Water Emergency Contingency Plan

As per BC Public Health NorthRiver is required to have a contingency plan to deal with drinking water quality at our remote facilities that have potable drinking water systems.

- A) Drinking water advisories
- B) Contamination of source
- C) Loss of source
- D) Flood conditions
- E) System failures

ACTIONS:

- The Area Operations Team Leader will:
- Shut down pumps and close valve to users
- Notify all users and post a drinking water advisory notice
- Contact the Drinking Water Program Coordinator
- Arrange alternate source of water for plant and personnel. (i.e. bottled water, bulk hauler)
- Order sample kits for post treatment and/or cleaning retesting

Emergency Cistern Disinfection

It will be necessary to disinfect the cistern if bacteria tests show that it has become contaminated. If a routine water test shows a positive result for bacteria, follow the cleaning and disinfection procedure as detailed below:

PROCEDURE

- 1. Drain water from tank.
- 2. Scrub or pressure-wash the interior walls to remove sediment and grime.
- 3. Rinse the inside surfaces of tank with clean potable water and drain wash water.
- 4. Fill tank with clean potable water.
- 5. Add the required amount of unscented household bleach (Sodium hypochlorite) to the water in the storage tank (see table below). Mix well.
- 6. To disinfect the plumbing lines and fixtures, open all taps in the distribution system until a chlorine smell is apparent at each outlet. Close taps.
- 7. Let chlorine solution sit in the water system for <u>at least 12 hours</u>. Do not consume this highly concentrated solution.
- 8. Drain the water tank (not into a septic system or fish bearing stream).
- 9. Refill with fresh potable water.
- 10. Open valve to distribution lines. Run water from the taps until there is no smell of chlorine.
- 11. Submit a new laboratory sample once cleaning and disinfection has taken place, and once new potable water has been replaced in the cistern. This will verify that contamination has been eliminated.

2025 Section 9.0 Page 15 of 25



Dosage of Household Bleach (~ 5% chlorine) required for the Cleaning and Disinfecting of Water Holding Tanks					
Tank Size		Amount of Household Bleach to obtain 50 ppm Chlorine			
Litres	Imp. Gallons	Metric	Imp. Ounces	Cups	
225	50	225 mL	8	1	
450	100	450 mL	18	2	
900	200	900 mL	32	4	
1150	250	1.2 L	40	5	
2300	500	2.3 L	80	10	
4500	1000	4.5 L	160	20	
6800	1500	6.8 L	240	30	
9100	2000	9.1 L	320	40	
11400	2500	11.4 L	400	50	

Disinfecting a Well

In a well-supplied drinking water system, it will be necessary to disinfect the well if bacteria tests show that it has become contaminated. The method outlined below describes the procedure to disinfect a well. If you have any questions about this procedure contact a Public Health Inspector for direction.

PRODECURE

- 1. Pour unscented household bleach (5% chlorine) directly into the well. Make sure that the chlorine gets all the way to the bottom of the well. (Please note: this instruction applies to all types of wells, be they drilled, driven or dug. In every case, pour the chlorine solution right down into the well, either through the drill pipe, or well head, or simply by adding the bleach to the water in an open or dug well, preferably through a hose inserted to the bottom of the well.) Check the amount of chlorine to add in the chart that follows.
- 2. Start the pump and open all taps one at a time, starting with the tap furthest from the well.
- 3. Close the taps one-by-one and stop the pump when you begin to smell chlorine at the taps.
- 4. Open the valve or plug at the top of the pressure tank just before stopping the pump to allow the solution to contact the entire inside surface of the tank. Then close the valve or plug.
- **5.** Leave the chlorinated water in the system for at least 12 hours. This is a very strong chlorine solution (about what you should use for cleaning floors) **DO NOT DRINK THE WATER**
- 6. Pump out the water until the chlorine odour disappears. *Do not drain this water into a stream, ditch, or storm drain which connects with any fish bearing streams.
- 7. Monitor frequently and treat again as necessary.
- 8. Control the factors that limit the effect of chlorine, e.g., cloudiness, and high levels of iron, manganese and hydrogen sulfide.
- 9. Submit a new laboratory sample once disinfection has taken place and chlorine has been flushed from the system. This will verify that contamination has been eliminated.

2025 Section 9.0 Page 16 of 25



Amount of 5% Chlorine Bleach Solution Required PER 3m (10ft) * of Water to Disinfect Well Water System (200 ppm)				
Well Pipe Diameter				
Inches	Centimeters	Bleach*		
4	10	5 tbsp, 100 ml		
6	15	13 tbsp, 200 ml		
8	20	1.5 cups, 360 ml		
10	25	2.5 cups, 560 ml		
12	30	3.5 cups, 808 ml		
24	60	14.6 cups, 3.3 L		
36	90	7.5 L		
48	120	13.3 L		

Note: 1 cup = 227 mL = 16 tbsp (tablespoons) = 48 tsp (teaspoons); 1 quart = 4 cups = 946 mL

Boil Water Advisory Resampling

In the event that a Public Health Inspector issues a Boil Water Advisory, two consecutive satisfactory water samples shall be taken at least 24 hours apart once all stages of the investigation, repair and remediation have been completed to the satisfaction of the Public Health Inspector.

- A Public Health Inspector may direct an alternate time span between samples based upon the bacteria detected.
- The Public Health Inspector shall provide written notice when the boil water notice may be lifted.

9.3.6 Closure Orders

Notice to Airmen (NOTAM)

In an emergency situation requiring isolation of the response zones, contact the BCER to discuss the issuance of a Closure Order.

It may be necessary to obtain a closure order (if issued by the BCER) or to declare a local state of emergency to restrict access to a designated area. A local state of emergency may be declared by the local authority should the incident escalate beyond the defined EPZ.

It also may be necessary for NAV Canada to issue a Notice to Airmen (NOTAM) to advise pilots of restrictions in the airspace above the EPZ or to close the airspace for a certain radius from the release (a no-fly zone). NOTAMs or closure of airspace may be required by the BCER at a level 2 or 3 emergency.



Oil and Gas Road Closures

In Emergency situations, permit holders must phone the BCER's 24-hour Incident Reporting line to notify the BCER of needed emergency oil and gas road closures. Under Section 20 of the OGRR a permit holder may temporarily close or restrict access if the action is necessary to address an existing or imminent threat to the environment or human life.

Under such circumstances, the Permit Holder must promptly notify the Commission. The notices of closure and resumption must be submitted to the Commission by email to BCER. ExternalNotifications@bc-er.ca using the Road Notification Form:

http://www.bc-er.ca/node/11088/download

Closure Order	Agency
Numbered Highway	Ministry of Transportation and Transit (Daytime) MOTT Road Maintenance Contractor – Area Specific (Afterhours)
Petroleum Development Road (Permit Holder)	BC Energy Regulator (BCER)

^{*}Ministry of Forestry is not to be involved in road closure notifications.

9.3.7 Government Roles and Responsibilities

Provincial Regional Emergency Operations Centre (PREOC)

The Provincial Regional Emergency Operations Centre manages activities at the Provincial Regional Coordination Level and coordinates the joint efforts of government and non-government agencies.

If the situation escalated beyond BCER control, EMCR may establish a Provincial Regional Emergency Operations Centre (PREOC) near the emergency site to coordinate provincial response. The PREOC also keeps elected provincial officials informed through personal contacts and briefing notes.

British Columbia Energy Regulator (BCER)

The BCER is a Crown Corporation of the province of British Columbia whose mandate is to regulate oil and gas activities and pipelines in the province. It is the petroleum authority that will participate in the emergency response to all situations involving or threatening oilfield wells, production facilities, or pipelines in British Columbia.

In an emergency, the BCER would be notified by EMCR, however, as EMCR works on a priority basis, the Company should take action and contact the BCER personally.

BRITISH COLUMBIA ENERGY REGULATOR	- ~
Oversee the operator's response to an incident.	₹Ř
Establish communication with the operator.	IMBI. LAT(
Confirm incident level with operator.	걸
Confirm downgrade of incident level.	ဝ음
Issue road closure order upon request from the operator.	으쮼
Request NOTAM order from NAV Canada upon request from the operator.	SE
Send an BCER representative to the Operator's On-Site Command Post and/or Evacuation Centre.	⊢ ≈
Establish a government EOC at the BCER office.	BRI
Confirm ignition decision with operator if time permits.	Ш
Confirm media releases to be sent out by operator.	

2025 Section 9.0 Page 18 of 25



Ministry of Emergency Management and Climate Readiness (EMCR)

The Ministry of Emergency Management and Climate Readiness (EMCR) was formed to be the lead coordinating agency in the provincial government for all emergency management activities. EMCR provides executive coordination, strategic planning, and multi-agency facilitation and strives to develop effective working relationships in an increasingly complex emergency management environment.

EMCR works with local governments, First Nations, federal departments, industry,

non-government organizations and volunteers to support the emergency management phases of mitigation/prevention, preparedness, response and recovery. Additionally, EMCR engages provincial, national and international partners to enhance collective emergency preparedness.

The EMCR acts as a 24-hour incident reporting line and initiates government notification fan-out by notifying the BCER, Ministry of Environment & Climate Change Strategy and Environment and Climate Change Canada.

Regional District

The local authority will usually participate in any emergency that impacts or threatens land or residents outside the confines of company property.

In B.C., if regional districts have not been granted the powers of a municipality under the Emergency Program Act, then EMCR is responsible for coordinating response activities.

REGIONAL DISTRICT	
Implement the rural municipality/regional district disaster or emergency plan.	CT
Provide local knowledge about conditions, resources, and the community.	፼
Assist with the establishment and administration of a Reception Centre if required.	DIST
Ensure local emergency services are available to assist the emergency response team.	
Dispatch representative(s) to the BCER's Emergency Operations Centre (EOC), if established.	∀
Provide support to ensure notification of endangered area residents.	S
Provide support to coordinate and deliver emergency social services to evacuated residents.	<u>ອ</u>
If necessary, declare a State of Local Emergency and issue an evacuation Alert, Order and Rescind.	REGIONA
Assist in a public information service (joint BCER, Industry, local government).	
Provide building re-entry procedures.	

2025 Section 9.0 Page 19 of 25



Emergency Services: Police, EMS, and Fire Fighting

EMERGENCY SERVICES	
Understand the hazards associated with the petroleum facilities and operations within the area.	
Work with the operator to effectively prepare for a petroleum industry incident.	
Understand the response role when there is a private and public sector response.	
Train personnel to carry out their functions when there is an incident.	
Establish contact with the industrial operator.	
Prior to dispatching staff to scene, determine the hazards associated with the incident.	လ္
Determine where roadblocks are established.	SERVICES
Where applicable, maintain roadblocks as necessary.	≅
Determine the direction of approach to the incident.	ij
Determine if there are any injuries.	
Find out what response and public protection actions have been taken by the operator.	EMERGENCY
Initiate public protection option, when necessary.	Ę
ldentify what resources are required and where they should be staged.	
Determine the location of the On-Site Command Post.	
Respond and assess emergency incident.	甸
Communicate to REOC and provide situation reports as required.	
Dispatch a representative to the REOC, when it is established to coordinate the response.	
Assist with fire protection, where applicable.	
Provide emergency medical assistance, as required.	
Compile response logs.	
Participate in municipal incident debriefing.	
Participate in multi-agency debriefings.	

2025 Section 9.0 Page 20 of 25



Ministry of Transportation and Transit

The British Columbia Ministry of Transportation and Transit is the British Columbia government ministry responsible for transport infrastructure and law.

The ministry is responsible for the planning of transportation networks, providing transportation services and infrastructure, developing and implementing transportation policies, and administering many transportation-related acts and regulations.

The Ministry of Transportation and Transit would assist with closures of any provincial road or highway.

MINISTRY OF TRANSPORTATION AND TRANSIT	. 7
Maintain a 24-hour emergency contact number where resources can be accessed for a response related to Emergency Response Plans.	Ō
Respond to Dangerous Goods transportation emergencies in British Columbia.	ΑË
☐ Provide advice and assistance in procurement of roadblock equipment.	
☐ Provide authorization/assistance for establishing road closures and emergency roadblocks.	
☐ Provide authorization/assistance for establishing road closures and emergency roadblocks. ☐ Manage transportation route closures.	
☐ Provide assistance with the closure of provincial highways in the establishment of suitable detour routes.	
Work with the appropriate local authority to facilitate the restoration of roadways.	=
Ensure that all requests and reports are completed.	

WorkSafeBC

WorkSafe BC requires that all serious incidents and accidents be immediately reported and investigated. WorkSafe BC also carries out workplace inspections and investigations of work-related injuries and fatalities.

Regulatory excerpt

Section 172 of the Workers Compensation Act states:

172 (1) An employer must immediately notify the Board of the occurrence of any accident that:

- a) Resulted in serious injury to or the death of a worker,
- b) Involved a major structural failure or collapse of a building, bridge, tower, crane, hoist, temporary construction support system or excavation,
- c) Involved the major release of a hazardous substance,
- c.1) Involved a fire or explosion that had a potential for causing serious injury to a worker, or
- d) Was an incident required by regulation to be reported.

POLICY

Section 172(1)(c) requires the employer to notify the Board of any accident that involved the major release of a hazardous substance.

A major release does not only mean a considerable quantity, or the peculiar nature of the release, such as a gas or volatile liquid, but, more importantly, the seriousness of the risk to the health of workers. Factors that determine the seriousness of the risk include the degree of preparedness of the employer to respond to the release, the necessity of working in close proximity to the release, the atmospheric conditions at the time of the release and the nature of the substance.

As a general guideline, a report would be expected when:

 The incident resulted in an injury that required immediate medical attention beyond the level of service provided by a first aid attendant, or injuries to several workers that require first aid.

2025 Section 9.0 Page 21 of 25



 The incident resulted in a situation of continuing danger to workers, such as when the release of a chemical cannot be readily or quickly cleaned up.

http://www.worksafebc.com/forms/assets/PDF/7.pdf

Local Health Authority

LOCAL HEALTH AUTHORITY	
Act as a consultant to the Emergency Operations Centre.	Ī
Monitor health effects of the incident to ensure appropriate data is collected and investigated.	TH/
Provide health advice on health and safety levels for the more vulnerable residents, including those in health care or special care	AL IT)
facilities.	유
Provide advice to the government on the existing or potential health effects of the incident.	17. 14.
Establish health and safety levels for the escaping contaminants.	85
Establish and operate trauma teams for emergency health services.	o d
Monitor adverse effects/contamination of water systems.	_
Enforce and regulate Public Health Regulations.	
Recommend further investigation or research after the event, if warranted.	

Ministry of Environment & Climate Change Strategy

The Ministry of Environment & Climate Change Strategy is responsible for ensuring sustainable development of the province's land, water, and resources while protecting environmental values.

In the event of an emergency, a ministry representative will provide regulatory oversight and monitor the situation to ensure that the responsible party is taking the appropriate actions.

The MOE may provide a representative to the Incident Command Centre and the BCER Emergency Operations Centre and/or the Provincial Regional Emergency Operations Centre (PREOC) on a 24-hour basis. In a larger scale incident, based on risk, additional ministry resources such as Incident Management Teams may be deployed to establish Unified Command and monitor, augment, or take over the response if the responsible party fails to take appropriate action as deemed necessary by the ministry representative or Provincial Incident Commander.

MINISTRY OF ENVIRONMENT& CLIMATE CHANGE STRATEGY	
Assist the responsible party to ensure that other required agencies and affected stakeholders are contacted.	Œ
Monitor all discharges to the land, atmosphere and all water bodies.	M
☐ Provide assistance with hazardous waste management.	
Conduct sampling for monitoring and enforcement purposes.	

B.C. Ministry of Forests, Lands, Natural Resource Operations & Rural Development

If a forest fire is associated with the incident, and a provincial emergency is declared, B.C. Ministry of Forests, Lands, Natural Resource Operations & Rural Development personnel will assist. The Ministry will provide assessment of potential damage and offer advice for remedial control in areas relating to renewable resources.

BC Government Communications & Public Engagement (GCPE)

BC GOVERNMENT COMMUNICATIONS & PUBLIC ENGAGEMENT	
Maintain a team of trained Public Affairs personnel.	Ш
Confirm distribution of BCER messaging. Provide support as required.	G G
Activate Crisis Communication Plan and Crisis Communications Response.	Ö
Advise EMCR if media boardroom will be required for media events.	
Coordinate key messaging with the BCER.	

2025 Section 9.0 Page 22 of 25



9.3.8 Technical Safety BC - Pressure Equipment

Technical Safety BC is an independent, self-funded organization mandated to oversee the safe installation and operation of technical systems and equipment.

How to Report Incidents and Hazards to Technical Safety BC.

For emergency assistance call 911 or your local police or fire department directly.

Incidents and hazards are to be reported to Technical Safety BC through our website at:

https://portal.technicalsafetybc.ca/report-incident/incident-reporting-form

Alternatively, you can call 1-866-566-7233 and follow the prompts to report an incident or hazard.

Note: voicemail and email messages made to Technical Safety BC employees concerning incidents and hazards are not considered to have been reported to Technical Safety BC as required by regulation.

Definitions

Incident: A failure of a regulated product, work or operation that causes:

- Damage to property, personal injury or death.
- Damage to safety features.

Note:

- Property damage or injury focuses on the impact that the failed equipment may have had outside the boundaries of the product, work or operation.
- Damage to safety features relates to failures where the damage:
 - o is limited to the failed product, work or operation and,
 - o does not render the product or activity inoperative and,
 - o impairs the safety feature's effectiveness.

Safety feature: An aspect of a product's design, installation, maintenance or operation that is intended to prevent people or property from being exposed to a hazard.

Hazard: A source of potential harm to persons or potential damage to property.

Duty holder: A person or company who is responsible for compliance because they either own regulated products or perform regulated work.

Reporting of Incidents to Technical Safety BC

The following duty holders are required to report all incidents to Technical Safety BC:

- Person in charge of a regulated product or regulated work.
- Owner of the regulated product.
- Permit holder.
- Person authorized to perform or performing regulated work.
- Person authorized to operate or operating a regulated product.
- An officer or employee of a utility.
- Owner of a plant (as defined in the regulations).

Only one incident report per incident is required.

Duty to Preserve Incident Site for Investigation

A person must not remove, disturb or interfere with anything in, on or about the place where the incident occurred except as necessary to rescue a person, prevent injury or to protect property unless directed by a safety officer or safety manager.

Reporting of Hazards to Technical Safety BC

Hazards are required to be prevented or immediately corrected by duty holders that are responsible for the regulated product, work or operation. Hazards must be immediately reported to Technical Safety BC when:

2025 Section 9.0 Page 23 of 25



- It is not known that the hazard is being corrected by the duty holder, or
- The same or similar hazards have been repeatedly observed and are associated with the same duty holder.

When to Report Incidents and Hazards to Technical Safety BC

Incidents:

Unless otherwise indicated, all incidents are to be reported within the following timeframes:

- Incidents resulting in a moderate, major or fatal injury immediately.
- Incidents resulting in moderate, major or severe damage immediately.
- All other incidents within 24-hours (or as soon as practicable).

Moderate injuries are those that, while serious, are considered unlikely to have a significant effect to long-term quality of life. Examples include single limb fractures, concussions, and/or disorientation.

Moderate damage is damage that results with controlled exposure to energy (i.e. electrical, thermal, mechanical) or the limited/controlled release of substances intended to be contained.

Hazards:

All hazards as described in the 'reporting of hazards' section above are to be reported to Technical Safety BC immediately.

What to Expect After Reporting an Incident or Hazard to Technical Safety BC

Technical Safety BC tracks and investigates incidents and hazards that are reported to inform awareness and prevention initiatives. Consequently, Technical Safety BC does not investigate all reported incidents and may not follow-up with a notification unless there is an intention to investigate.

Summaries of all reported incidents and completed investigations can be accessed via Technical Safety BC at https://www.technicalsafetybc.ca/hazard-data-and-incident-data. Technical Safety BC protects the identity of persons who report or may be involved with incidents or hazards.

Unless otherwise indicated, duty holders are required to preserve the equipment, products and items involved in an incident. Technical Safety BC will contact duty holders within 24-hours of the next regular business day following the report of an incident if more information is required or an investigation is planned to occur.

For more information, refer to Technical Safety BC's website.

https://www.technicalsafetybc.ca/alerts/incident-and-hazard-reporting-boilers-pressure-vessels-piping-and-fittings

2025 Section 9.0 Page 24 of 25



9.3.9 List of Abbreviations/Definitions

Acronym	Name
EAZ	Emergency Awareness Zone: The area twice the radius of the EPZ.
Local Authority	Regional District
EMCR	Ministry of Emergency Management and Climate Readiness
MOE	Ministry of Environment & Climate Change Strategy
BCER	British Columbia Energy Regulator
PAB	Public Affairs Bureau
PREOC	Provincial Regional Emergency Operations Centre:
Regulatory Authority	British Columbia Energy Regulator
Rights Holders	Refers to anyone holding a permit under section 15 or a licence under section 39 of the Land Act, under which the person is granted non-intensive occupation or use of the land; a forestry licence to cut, master licence to cut, road use permit, timber sales licence, tree farm licence or woodlot licence under the Forest Act; a grazing permit or grazing license under the Range Act; a guide outfitter's certificate or a registered trapline under the Wildlife Act; a mineral claim under the Mineral Tenure Act; or, a water licence or approval under the Water Act.



9.4 CANADIAN FEDERAL GOVERNMENT

9.4.1 Royal Canadian Mounted Police (RCMP)

The RCMP is both a federal and a national police force of Canada. The RCMP provides policing services to all of Canada at a federal level, and also on a contract basis to the three territories, eight of Canada's provinces (the RCMP does not provide provincial or municipal policing in either Ontario or Quebec), more than 190 municipalities, 184 Indigenous communities, and three international airports.

RCMP	
May assist in the initial area isolation, security traffic and crowd control.	1 _
In conjunction with transportation, local authorities and Company personnel, may provide assistance with closure of roadways.	₽
If available, assist company personnel with resident evacuation.	ည
Clarify responsibilities when fatalities are involved. Police must be notified in the case of a fatality.	<u> </u>
Assist the coroner in the event of a fatality in which there is no criminal wrongdoing.	
Notify next-of-kin in the event of a fatality of a member of the public.	

9.4.2 Environment and Climate Change Canada

Environment and Climate Change Canada is responsible for coordinating environmental policies and programs as well as preserving and enhancing the natural environment and renewable resources. The powers, duties and functions of the Minister of the Environment extend to and include matters relating to: preserve and enhance the quality of the natural environment, including water, air, soil, flora and fauna; conserve Canada's renewable resources; conserve and protect Canada's water resources; forecast daily weather conditions and warnings, and provide detailed meteorological information to all of Canada; enforce rules relating to boundary waters; and coordinate environmental policies and programs for the federal government.

Under the Canadian Environmental Protection Act (CEPA 1999), Environment and Climate Change Canada is the lead federal department to ensure the clean-up of hazardous waste and oil spills for which the government is responsible, and to provide technical assistance to other jurisdictions and the private sector as required.

ENVIRONMENT AND CLIMATE CHANGE CANADA	ш
Identify actions required under the Fisheries Act and the Canadian Environmental Protection Act (CEPA).	IMATE
Work together with provincial environmental protection agencies.	ੀ≰
Provide advice on environmental implications as a result of operational decisions.	
☐ Assist with plume monitoring.	
Provide advice on the characteristics of substances and how they might affect human health and environment; weather forecasting and	
spill modeling to identify where these substances are likely to move in the environment.	
☐ Provide sampling and laboratory analytical support.	
Assign inspectors where appropriate. Assist with plume monitoring. Provide advice on the characteristics of substances and how they might affect human health and environment; weather forecasting and spill modeling to identify where these substances are likely to move in the environment. Provide sampling and laboratory analytical support. Advise about clean up technology and techniques.	
May develop damage assessment and restoration tools and techniques.	

2025 Section 9.0 Page 1 of 22



Canadian Environmental Protection Act (CEPA)

Under the Canadian Environmental Protection Act (CEPA), the Government of Canada is required to take preventive and remedial measures to protect, enhance and restore the environment.

An environmental emergency is defined as an incident that:

- 1. may have an immediate or long-term harmful effect on the environment or its biological diversity,
- 2. may constitute a danger to the environment on which human life depends or
- 3. may constitute a danger in Canada to human life or health.

Any person in Canada who owns or manages a listed substance in a quantity at or over the prescribed minimum quantity is required to provide Environment and Climate Change Canada with information on the quantity of the substance, along with the facility location and an emergency plan. Any existing emergency plan may be used to satisfy the requirements of the regulations.

Environment and Climate Change Canada requires any responsible person who has charge, management or control of substances within a facility in excess of threshold limits listed in Schedule 1 of the Environmental Emergency Regulations to:

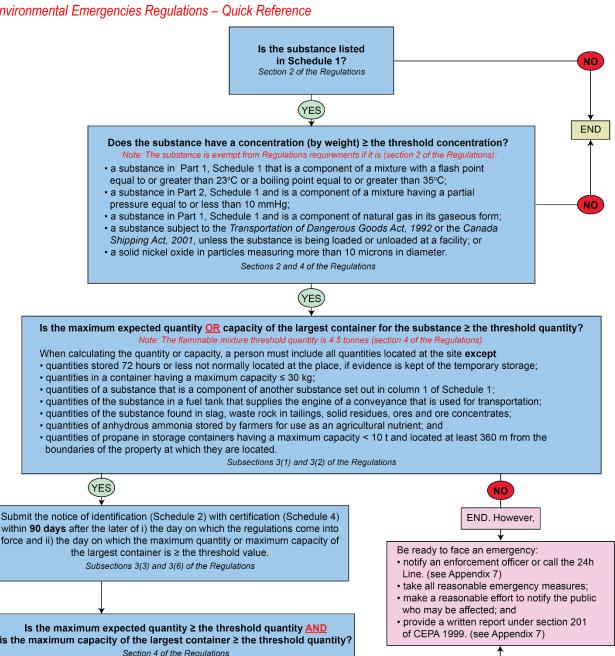
- File a declaration with the minister.
- Prepare an environmental emergency (E2) plan.
- Implementation by yearly maintenance and testing of the plan.

Exemptions

- Amounts temporarily stored for 72 hours or less in a container not normally located at the site.
- Quantities in a container with capacity of 30 kg or less.
- Quantities of substance when it is a component of another substance in Schedule 1.
- Quantities of a substance when it is a component of natural gas.
- A substance that is used to fuel a heating appliance or to generate power at the facility where it is located and is present in a quantity that is less than the quantity set out in column 4 or Part 1 of Schedule 1.
- Quantities of a substance in fuel tank supplying engine of conveyance.
- Quantities of a substance regulated under Transportation of Dangerous Goods Act or the Canada Shipping Act.
- A substance that is in a pipeline located entirely within a province and that is on a property where there are no fixed onshore installations other than pipelines, compressor stations or pump stations.



Environmental Emergencies Regulations – Quick Reference





END. However,

Submit a report of emergency plan preparation (Schedule 3) with certification (Schedule 5) within 6 months and a notice of implementation and testing (Schedule 4) with certification (Schedule 5) within 1 year after the later of i) the day on which the Regulations come into force and ii) the day on which the person is first required to prepare an environmental emergency plan. Sections 4(4), 4(5) and 5 of the Regulations

Update and test the plan at least once a year. Section 6 of the Regulations



Overview of Environmental Emergency Regulations Schedules

The CEPA schedules can be found via the Environment and Climate Change Canada website link found here:

http://gazette.gc.ca/rp-pr/p2/2019/2019-03-06/html/sor-dors51-eng.html

The schedules submitted by the company should be reviewed during the annual ERP update to ensure all contact and technical information is correct.

Schedule 1 – List of toxic substances

Schedule 2 – Company name and substances located at a facility

Schedule 3 – E2 Plan preparation

Schedule 4 – E2 Plan brought into effect

Schedule 5 – Full Scale Exercise of E2 plan

Schedule 6 – Notice of change in circumstances (quantity or capacity)

Schedule 7 – Notice of cessation of operations or transfer of ownership

Schedule 8 – Written report of environmental emergency

Environmental Emergency (E2) Plan

The objectives of the Environmental Emergency Regulations (2019) under the Canadian Environmental Protection Act, 1999 are to reduce the frequency and consequences of uncontrolled, unplanned or accidental releases of hazardous substances into the environment. The objective is obtained through proper environmental emergency planning so that companies are able to prevent, prepare for, respond to and recover from an environmental emergency.

Essential Features of an Environmental Emergency (E2) Plan

The E2 Plan must address the types of emergencies that might reasonably occur, including both on-site and off-site consequences, and the associated prevention, preparedness, response and recovery issues.

Persons involved with an E2 Plan along with their respective roles and responsibilities will have to be identified in the plan.

Environmental emergency plans may address:

- Prevention
- Preparedness
- Response
- Recovery

Prevention Plan

Preventing environmental emergencies means taking action to reduce or eliminate the environmental risks. The Company recognizes that prevention is by far the most important area for focus.

To qualify as an approved petroleum operator the Company is required to meet strict government standards. These legislated standards govern the construction, maintenance and operations of petroleum assets throughout Canada and help ensure the safe operation of petroleum industry infrastructure, limiting the impact on the public and the environment.



The Company has in place the following key elements of a maintenance program and safety management system:

- The operations are designed and constructed to specific industry standards.
- The Company has preventative maintenance checks and programs that include using: An Owners Inspection Program that meets Boilers Safety Association regulations. This includes a maintenance tracking system to schedule preventative maintenance work.
- The Company is committed to maintaining effective operating procedures and facility documentation.
- Operator competency is reviewed to determine the type and amount of training each employee requires upon hiring.
- Process and procedures are in place to ensure that changes in design, service or staff are
 effectively managed to minimize impacts on operations.
- Incident investigation and analysis is conducted to minimize reoccurrence of accidents and incidents are tracked through the Company workplace tracking system.
- The Company is committed to conducting regular reviews to assess compliance to standards.

Preparedness Plan

Being prepared for an emergency is critical to mounting a quick and effective response that will help minimize impacts on the health of people and the environment.

The Company's Environmental Emergency Plan will work in partnership with government, other industry members and communities to:

- Identify potential risks and sensitive resource environments.
- Develop contingency plans that outline how to deal with emergencies.
- Train personnel to apply this plan.
- Review and exercise this plan to strengthen their effectiveness and ensure continuous improvement.

The Company has conducted a risk assessment and identified the most reasonable worst-case scenarios to be:

- An uncontrolled release.
- A fire/explosion.

The potential consequences of an emergency may include:

- Negative environmental impact caused by a hazardous substance.
- Serious injury or fatality.

The purpose of an ERP is to establish an action plan structure so that the Company can quickly and effectively respond to an emergency. This ERP outlines the criteria for assessing an emergency situation. The document also lists procedures for mobilizing response personnel (including government agencies) and provides procedures for establishing communication and coordination amongst the vested parties.

Refer to the facilities on-site information/plot plans showing:

- Tanks and vessels.
- Process equipment.
- Worker muster points.
- Safety equipment.
- Fire prevention/protection/suppression/equipment.
- Surface run-off control points and off-lease control points.
- Spill kits.

Facilities also have well marked signs for containers, hazardous substances, operating procedures and site-specific emergency information.

Response Plan

Key sections in this ERP that define the emergency response protocol include:

2025 Section 9.0 Page 5 of 22



- Assessment Matrix for Classifying Incidents
- Roles and Responsibilities
- Command Centres
- Crisis Communication Plan
- Response Action Plans

The roles and procedures to carry out response activities are described in the Roles and Responsibilities section of this manual. The Telephone Directory contains government agency and support service contact information who could be involved in the response to an environmental emergency. The stakeholder information in the Field Specific Section identifies members of the public or industry that could be affected by an environmental emergency. Each site-specific section also contains an area summary. The area summary includes pertinent area information that may be relevant during an environmental emergency such as topography, spill receptors, and land use.

When it comes to environmental emergencies, no single organization can do it all. Effective emergency response requires teamwork among industry, governments, communities and local organizations.

Environment and Climate Change Canada's Emergency officers have HAZMAT (Hazardous Materials) expertise, backed by scientific support, which enables response in the event of spills involving hazardous materials. The role of Environment and Climate Change Canada's environmental emergency response team is to provide advice and support on:

- Hazardous material properties, behaviour, fate and environmental effects.
- Spill-behaviour and spill-movement modeling using the latest-generation models and techniques.
- Training in personnel protection at pollution emergencies.
- Advice and direct support on state-of-the-art, on-site monitoring of human and environmental hazard levels at pollution emergencies.
- Sample collection at spill sites.
- The contract administration of airborne services for the remote sensing of spills.
- The evaluation of spill countermeasures, particularly those relating to containment and recovery, treatment and disposal techniques.
- Priority assessment for shoreline protection and clean-up using its Shoreline Clean-up and Assessment Technique (SCAT).

Recovery Plan

It is important to clean-up and recover from environmental damage after an emergency. Environmental damage is the impact pollution causes to the bio-physical environment. It can affect survival, growth, reproduction, behaviour, community composition, ecological process functions, physical and chemical habitat quality and structure. There can also be impacts on socio-economic services.

The two key parts of recovery are environmental damage assessment and restoration. The Company's end goal is to restore the environment after a spill.

The Company will shut-in the impacted facility, assess and respond to the environmental impacts in compliance with regulation. The Company will conduct an assessment of the incident with the appropriate government agencies to decide if the site is safe for operations to continue. The Company will ensure the site is safe for normal work resumption. Workers affected by the incident will be informed of work resumption dates and times. Work resumption, investigation and critical incident stress debriefing procedures are outlined in the Post Emergency section of this manual.

Once the immediate emergency has ended and the initial clean-up has been done, there may be lingering environmental impacts. Recovery activities are designed to examine these possible impacts through damage assessment. During this phase, the Company will determine the nature and extent of the environmental pollution and develop strategies to restore injured natural resources, ecological service flows and socio-economic service flows.



ERP Exercises and Training

CEPA E2 regulations require than an E2 plan be updated and tested at least once each calendar year by a simulation exercise in respect of one substance from each of the hazard categories referred to in column 5 of Parts 1 and 2 of Schedule 1, using an environmental emergency identified under paragraph 4(2)(d) as the emergency being simulated. Environment and Climate Change Canada recognizes that a full-scale simulation exercise may not be achievable every year. Therefore, facilities may conduct a full-scale simulation exercise at least once within a five-year period must respect the yearly testing requirement by testing different components of their E2 plan at least once each calendar year.

The exercise design process for E2 training must be composed of the following four main steps:

- 1) Planning the annual ERP exercise;
- 2) Conducting the exercise;
- 3) Evaluating and reporting on the outcomes; and
- 4) Correcting and updating the E2 plan.

Testing must reflect a credible type of environmental emergency that can be reasonably be expected to occur for the place in question and that would likely cause harm to the environment or constitute a danger to human life or health. Testing or exercising enables critical aspects of the plan to be examined in a structural way, simulating conditions to reveal major mistakes and / or omissions so that they can be subsequently corrected before real emergencies occur. Once every five years a Major exercise must be held on the regulated site and should test their facilities' E2 plan. Documentation of all exercises must be kept for a period of seven years.

Simulation Exercise means an exercise simulating the response to an environmental emergency involving the release of a substance.

Full-Scale Simulation Exercise means an action-based simulating exercise requiring the deployment of personnel, resources and equipment.

Record of Simulation Exercise

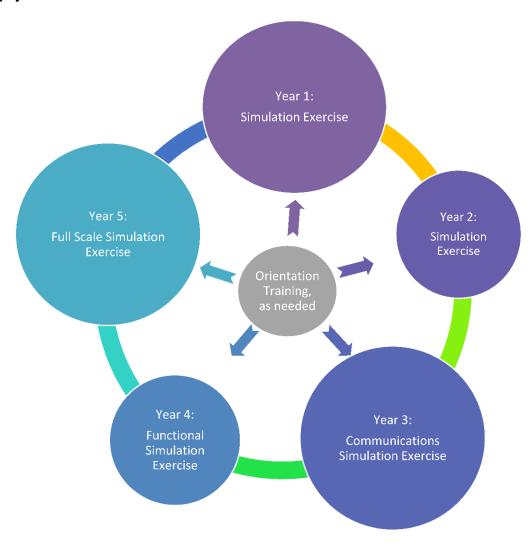
After each Simulation Exercise is conducted in relation to the environmental emergency plan, a responsible person must prepare a record that contains the date, a summary and the results of the simulation exercise and any modifications to be made to the plan as a result of the simulation exercise.

Notice - Simulation Exercises Conducted

A responsible person must, within five years after the day on which the environmental emergency plan is brought into effect, submit a notice to the Minister containing the information referred to in Schedule 5 concerning the simulation exercises conducted in relation to an environmental emergency plan.



Training Cycle





CEPA Compliance and Enforcement

Environment and Climate Change Canada may request copies of environmental emergency plans. In addition to facility visits by enforcement officers, violations of CEPA Sections 199 and 200 may result in warnings, directions, compliance orders, and prosecution.

Environmental Emergencies Program

The Environmental Emergencies Program protects Canadians and their environment from the effects of environmental emergencies through the provision of science-based expert advice and regulations. The Environmental Emergencies Program provides expert advice during the environmental assessment process of large development projects to improve mitigation measures that prevent accidents from occurring and improve emergency response plans so that effective and timely actions can be taken when accidents occur.

Note: The Federal government and Provinces have reciprocal harmonization agreements to share information as required to protect human life, health and environmental protection.

Who to Contact:

Province	Agency
Alberta	Alberta Ministry of Environment and Parks
British Columbia	Emergency Management British Columbia – Ministry of Justice
Saskatchewan	Saskatchewan Ministry of Environment
Manitoba	Manitoba Agriculture and Resource Development – Petroleum Branch



9.4.3 Department of Fisheries and Oceans (DFO)

The department within the government of Canada that is responsible for developing and implementing policies and programs in support of Canada's economic, ecological and scientific interests in oceans and inland waters. Its mandate includes responsibility for the conservation and sustainable use of Canada's fisheries resources while continuing to provide safe, effective and environmentally sound marine services that are responsive to the needs of Canadians in a global economy.

Any amount of hydrocarbons entering a waterway frequented by fish or occupied by waterfowl is deemed to be in contravention of the Federal Fisheries Act and must be reported to the Department of Fisheries and Oceans.

DEPARTMENT OF FISHERIES AND OCEANS	
Design and develop related regulations, policies, strategies and tools.	Ī
Review, assess and monitor activities associated with fish habitat to ensure their compliance with the Fisheries Act and Species at Risk Act.	
Conduct environmental assessments under the Canadian Environmental Assessment Act.	FC
☐ Design, develop, and implement communication and education strategies. ☐	
☐ Work together with provincial environment protection agencies.	
Receive notification from Environment and Climate Change Canada.	
May send personnel to the site if there has been or could potentially be an impact to fish or fish habitat.	
Work closely with Environment and Climate Change Canada, The Canadian Coast Guard and other provincial environmental agencies.	

9.4.4 Public Safety Canada

Public Safety Canada formerly known as Public Safety and Emergency Preparedness Canada, legally incorporated as the federal Department of Public Safety and Emergency Preparedness, is the department of the government of Canada with responsibility for protecting Canadians and helping to maintain a peaceful and safe society.

Public Safety Canada houses the Government Operations Centre at the hub of the national emergency management system. The Government Operations Centre is an advanced centre for monitoring and coordinating the federal response to an emergency.

In the event of a large-scale natural disaster where response and recovery costs exceed what individual provinces and territories could reasonably be expected to bear on their own, Public Safety Canada provides financial assistance to the provincial and territorial governments through the Disaster Financial Assistance Arrangements (DFAA). Assistance is paid to the province or territory – not directly to individuals or communities. The provincial or territorial governments design, develop, and deliver disaster financial assistance, determining the amounts and types of assistance that will be provided to those who have experienced losses.

PUBLIC SAFETY CANADA	
Ensure first responders and emergency management personnel are well-prepared through education, support, and exercises.	ار T
Work with provincial response agencies.	BE FE
Monitor and coordinate the Federal response to an emergency.	PU
Provide financial assistance to the provincial and territorial governments through the Disaster Financial Assistance Arrangements (DFAA).	

2025 Section 9.0 Page 10 of 22



9.4.5 Transport Canada – Transportation of Dangerous Goods

The department within the government of Canada which is responsible for developing regulations, policies and services of transportation in Canada. It is part of the Transportation, Infrastructure and Communities (TIC) portfolio. The federal Transportation of Dangerous Goods (TDG) Regulations regulate the transportation of dangerous goods for the road, rail, air and marine transport modes.

The purpose of the TDG legislation is to reduce the risk to emergency response personnel, the public and the environment. One secondary objective is to collect data on accidents which involve dangerous goods either directly or indirectly. This data will allow the measurement of the influence of this legislation on safety.

The Surface Transport Dangerous Goods Directorate of Transport Canada may assume federal Lead Agency status for land-based spills involving rail cars or tank trucks. It also administers and enforces the requirements of the Transportation of Dangerous Goods (TDG) Act following a transportation emergency incident.

The Marine Safety Branch also administers and enforces the pollution provisions and regulations of the Canada Shipping Act (CSA) and has the legal authority to board vessels, draw samples, and collect evidence. This work is performed by an authorized Pollution Prevention Officer.

Transport Canada also staffs and manages the Canadian Transport Emergency Centre (CANUTEC) which provides 24-hour advice on chemical spill response, TDG requirements, and also serves as a 24-hour emergency reporting centre for hazardous materials incidents anywhere in Canada. The Directorate's overall mandate is to promote public safety in the transportation of dangerous goods by all modes.

Federal regulations require that CANUTEC be contacted in the event of an incident or accident involving dangerous goods and infectious substances.

CANUTEC staff does not go to the site of an incident, however, should on-site assistance be required, CANUTEC can assist in the implementation or industry Emergency Response Assistance Plans.

TRANSPORT CANADA	
Regulate the handling, offering for transport and the transport of dangerous goods by all modes in order to ensure public safety.	ď
Maintain a 24-hour emergency telephone service.	¥
Assist emergency response personnel in handling dangerous good emergencies.	Ϋ́
Provide advice on chemical, physical and toxicological properties and incompatibilities of the dangerous goods.	Ė
Provide advice on health, hazards, and first aid.	S.
Provide advice on fire, explosion, spill, or leak hazards.	SP
Provide advice on remedial actions for the protection of life, property, and the environment.	Z
Provide advice on evacuation distances.	Æ
Provide advice on personal protective clothing and decontamination.	—
Provide communication links with the appropriate industry, government, or medical specialists.	

2025 Section 9.0 Page 11 of 22



CANUTEC - Public Safety Measures

CANUTEC is the Canadian Transport Emergency Centre operated by the Transportation of Dangerous Goods (TDG) Directorate of Transport Canada. The Directorate's overall mandate is to promote public safety in the transportation of dangerous goods by all modes. CANUTEC was established in 1979 and is one of the major safety programs Transport Canada delivers to promote the safe movement of people and goods throughout Canada.

The 2024 Emergency Response Guidebook (ERG2024) was developed, in an international effort between Argentina, Canada, Mexico and the United States for use by fire fighters, police, and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving dangerous goods. It is primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the material(s) involved in the incident and protecting themselves and the general public during the initial response phase of the incident. For the purposes of the ERG2024, the "initial response phase" is that period following arrival at the scene of an incident during which the presence and/or identification of dangerous goods is confirmed, protective actions and area securement are initiated, and assistance of qualified personnel is requested. It is not intended to provide information on the physical or chemical properties of dangerous goods.

The ERG2024 is designed to assist responders in making initial decisions upon arriving at the scene of a dangerous goods incident. It should not be considered as a substitute for emergency response training, knowledge or sound judgment. ERG2024 does not address all possible circumstances that may be associated with a dangerous goods incident. It is primarily designed for use at a dangerous goods incident occurring on a highway or railroad. Be mindful that there may be limited value in its application at fixed facility locations.

In the event of an emergency involving dangerous goods, call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone. CANUTEC's emergency response advisors provide immediate advice over the phone about the actions to take and to avoid during a dangerous goods emergency. They can also send technical information to local authorities responsible for responding to emergencies by email or fax during an incident.



ID No.	Guide		Name of Material	Public Safety (Immediate	Evacuation								
ID NO.	No. No. Name of material precautionary measures) Large Spill					Fire							
1971	115	•	Methane Methane, compressed Natural gas, compressed	100 m (330 ft)	Consider 800 metr			d evacuatio	on for a	t least	If tank, rail car or tank truck is involved in a fire, isolate for 1600 metres (1 mile) in all directions; also, consider initial evacuation for 1600 metres (1 mile) in all directions.		
1075	115	• • • •	Butane Liquefied Petroleum Gas (LPG) Propane Propane mixture	100 m (330 ft)	Consider 800 metr			d evacuatio	on for a	t least			
1071	119	• •	Oil gas Oil gas, compressed	100 m (330 ft)	Increase necessar "PUBLIC	y, the i	isolation	wnwind of distance	direction shown				
1267	128	•	Petroleum crude oil	50 m (150 ft)	Consider initial downwind evacuation for at least 300 metres (1000 ft).			If tank, rail car or tank truck is involved in a fire, isolate for 800 metres (1/2 mile)					
1114	130	•	Benzene	50 m (150 ft)	Consider initial downwind evacuation for at least 300 metres (1000 ft).			in all directions; also, consider initial evacuation for 800 metres (1/2 mile) in all directions.					
				D.111 O.64	Initial Isolation and Protective Action Distances			n					
ID No.	Guide		Name of Material	Public Safety (Immediate	Sm	all Spil		Lar	rge Spil		Fire		
ID NO.	No.		Name of Material	precautionary measures) First Isolate in all the persons downwind du		sons	First Isolate in all directions		sons				
					directions	Day	Night	unections	Day	Night			
1053	117	•	Hydrogen Sulphide	100 m (330 ft)	30 m	0.1 km	0.4 km	400 m	2.1 km	5.4 km	If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.		
3494	131	•	Petroleum sour crude oil, flammable, toxic	50 m (150 ft)	30 m	0.1 km	0.2 km	60 m	0.5 km	0.7 km	If tank, rail car or tank truck is involved in a fire, isolate for 800 metres (1/2 mile) in all directions; also, consider initial		
1017	124	•	Chlorine	100 m (330 ft)	60 m	0.3 km	1.1 km	See table below		ow	evacuation for 800 metres (1/2 mile) in all directions.		

	Transport Container	First ISOLATE in all Directions	Initial Isolation and Protective Action Distances						
Toxic Inhalation Hazardous Materials				Day		Night			
materials			Low wind < 6 mph = < 10 km/h	Moderate wind 6-12 mph = 10 - 20 km/h)	High wind > 12 mph = > 20 km/h	Low wind < 6 mph = < 10 km/h	Moderate wind 6-12 mph = 10 - 20 km/h)	High wind > 12 mph = > 20 km/h	
	Rail Tank Car	1000 m (3000 ft)	9.9 km (6.2 mi)	6.4 km (4.0 mi)	5.1 km (3.2 mi)	11+ km (7+ mi)	9.0 km (5.6 mi)	6.7 km (4.2 mi)	
Chlorine (UN 1017)	Highway tank truck or trailer	600 m (2000 ft)	5.8 km (3.6 mi)	3.4 km (2.1 mi)	2.9 km (1.8 mi)	6.7 km (4.3 mi)	5.0 km (3.1 mi)	4.1 km (2.5 mi)	
Sulphur Dioxide (UN 1079)	Multiple ton cylinders	300 m (1000 ft)	2.1 km (1.3 mi)	1.3 km (0.8 mi)	1.0 km (0.6 mi)	4.0 km (2.5 mi)	2.4 km (1.5 mi)	1.3 km (0.8 mi)	
	Multiple small cylinders or single ton cylinder	150 m (500 ft)	1.5 km (0.9 mi)	0.8 km (0.5 mi)	0.5 km (0.3 mi)	2.9 km (1.8 mi)	1.3 km (0.8 mi)	0.6 km (0.4 mi)	

Emergency Response Guidebook
U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, Transport Canada, Secretariat of Transport and
Communications, 2024



Reporting Requirements

The Transportation of Dangerous Goods Act, 1992 (TDG Act) requires reporting dangerous goods incidents which meet or exceed established reporting criteria listed in the Transportation of Dangerous Goods Regulations (TDG Regulations).

Who should report:

The report must be made by the person who has the charge, management or control of a means of containment (e.g. a driver, a company representative, a shipmaster, a train operator etc.) at the time of the incident if the release or anticipated release (e.g. spills, accidents), loss or theft of dangerous goods that is or could be in excess of a quantity or concentration specified by regulation from the means of containment if it endangers, or could endanger, public safety.

When to report:

Part 8 of the TDG Regulations (Reporting Requirements) requires a number of different report types. When certain conditions are met, persons subject to the TDG Regulations must submit one of the report types below.

Reports for the Transport of Dangerous Goods by Road, Rail and Marine

- Emergency Report Road, Rail or Marine (Section 8.2 of the TDG Regulations)
- Release or Anticipated Release Report Road, Rail or Marine (Section 8.4 of the TDG Regulations)
- 30-Day Follow-Up Report (Section 8.6 of the TDG Regulations)

Reports for the Transport of Dangerous Goods by Air

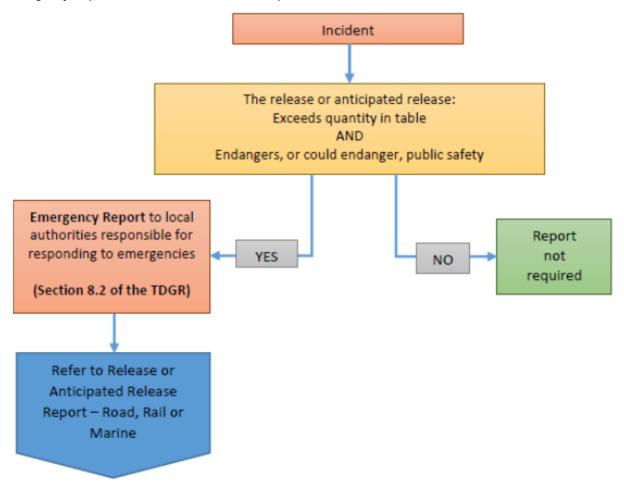
- Dangerous Goods Accident or Incident Report Air (Section 8.9 of the TDG Regulations)
- 30-Day Follow-up Report (Section 8.11 of the TDG Regulations)
- Undeclared or Mis-declared Dangerous Goods Report (Section 8.14 of the TDG Regulations)

Reports Relating to Security – All Modes of Transport

- Loss or Theft Report (Section 8.16 of the TDG Regulations)
- Unlawful Interference Report (Section 8.18 of the TDG Regulations)

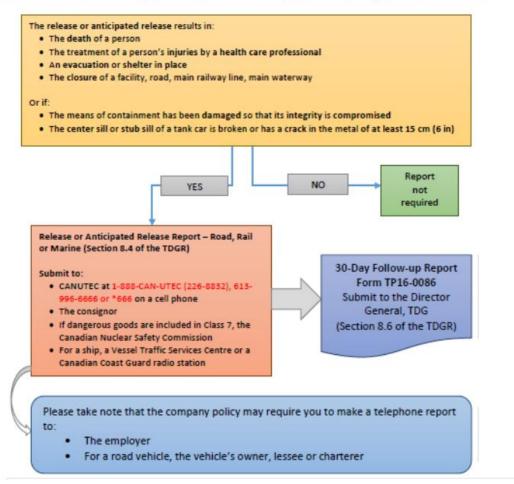


Emergency Report – Road, Rail or Marine Transport





Release or Anticipated Release Report - Road, Rail or Marine



Transportation of Dangerous Goods ERAP

The TDG Act requires any person importing or offering for transport certain higher risk dangerous goods (for example chlorine, propane, crude oil) in quantities specified by the TDG Regulations to have an approved Emergency Response Assistance Plan (ERAP) and ERAP number.

The ERAP number is found on the shipping document. If you call the ERAP telephone number, you will be connected with someone who can implement the plan. They will: provide technical and/or emergency response advice promptly.

An ERAP describes what to do in the event of a release or anticipated release of certain higher-risk dangerous goods while they are in transport. The plan is intended to assist local emergency responders by providing them with technical experts and specially trained and equipped emergency response personnel at the scene of an incident.

ERAPs may be used along with emergency response plans from other organizations (for example, carriers and local or provincial authorities). An incident management system, usually the Incident Command System (ICS), ensures coordination between the ERAP and other emergency response plans.



9.4.6 Transportation Safety Board

The Transportation Safety Board of Canada (TSB) has a mandate to advance transportation safety in the marine, pipeline, rail and air modes of transportation.

The CER and the TSB have adopted a single window reporting approach for inter-provincial or cross border pipelines. The new Online Event Reporting System (OERS) automates the single-window pipeline occurrence notification process that was established by the TSB and the CER.

Roles and Responsibilities

TRANSPORTATION SAFETY BOARD	_
Conduct independent investigations, including public inquiries when necessary, into selected transportation occurrences in order to make findings as to their causes and contributing factors.	SB
Identify safety deficiencies, as evidenced by transportation occurrences.	_
Make recommendations designed to eliminate or reduce any such safety deficiencies.	
Report publicly on their investigations and on the findings in relation thereto.	

TSB Pipeline Occurrence Reporting

Requirement to Report

A "pipeline occurrence" must be reported if it results directly from the operation of the pipeline, where

- 1. a person is killed or sustains a serious injury;
- 2. the safe operation of the pipeline is affected by
 - 1. damage sustained when another object came into contact with it, or
 - 2. a fire or explosion or an ignition that is not associated with normal pipeline operations;
- 3. an event or an operational malfunction results in
 - 1. an unintended or uncontrolled release of gas,
 - 2. an unintended or uncontrolled release of HVP hydrocarbons,
 - 3. an unintended or uncontained release of LVP hydrocarbons in excess of 1.5 m³, or
 - 4. an unintended or uncontrolled release of a commodity other than gas, HVP hydrocarbons or LVP hydrocarbons;
- 4. there is a release of a commodity from the line pipe body;
- 5. the pipeline is operated beyond design limits, or any operating restrictions imposed by the Canada Energy Regulator;
- 6. the pipeline restricts the safety operation of any mode of transportation;
- 7. an unauthorized third-party activity within the safety zone poses a threat to the safe operation of the pipeline;
- 8. a geotechnical, hydraulic or environmental activity poses a threat to the safe operation of the pipeline;
- 9. the operation of a portion of the pipeline is interrupted as a result of a situation or condition that poses a threat to any person, property or the environment; or
- 10. an unintended fire or explosion has occurred that poses a threat to any person, property or the environment.

Source: Transportation Safety Board Regulations Section 4(1)

2025 Section 9.0 Page 17 of 22



Input the information you have as soon as possible after the occurrence

As soon as possible after the occurrence, enter the information you have about it into the Online Event Reporting System (OERS). When the information is submitted, the OERS will automatically notify the TSB and the CER.

Information must be entered in the OERS even if you have reported the occurrence by telephone.

Enter factual information only. Information that is considered a witness statement and/or personal information must not be entered in the OERS.

Submit additional information as soon as available

Provide the remainder of the information required by the TSB through the OERS as soon as it becomes available and no later than 30 days after the occurrence.

If you have any questions or concerns about using the Online Event Reporting System for reporting occurrences to the TSB, call the TSB.

Online Event Reporting System (OERS)

https://apps.cer-rec.gc.ca/ERS/Home/Index/

9.4.7 Health Canada

Health Canada is the department of the Government of Canada with responsibility for national public health.

HEALTH CANADA

- Communicates information about health and wellness and disease prevention to protect Canadians from avoidable risks.
- During a health emergency or disaster, Health Canada and the Public Health Agency of Canada are responsible for supporting emergency health and social services in the provinces and territories.
- Work collaboratively with the provinces and territories to test ways in which the Canadian health care system can be improved and ensure its sustainability for the future.

HEALTH CANADA

9.4.8 Public Health Agency of Canada

Public Health Agency of Canada is an agency of the Government of Canada that is responsible for public health, emergency preparedness, and response and infectious and chronic disease control and prevention.

In an emergency situation, the Office of Emergency Response Services (OERS) is responsible for supporting emergency health and social services in the provinces, territories, or abroad. It manages the National Emergency Stockpile System (NESS), which includes medical, pharmaceutical and related emergency supplies.

PUBLIC HEALTH AGENCY OF CANADA

- Facilitate national approaches to public health policy and planning.
- ☐ If a public health emergency grows beyond one province and/or territory activate response actions.
- Deploy health emergency response teams (HERT) as part of the federal response to emergencies that have health repercussions.
- ☐ Work with Health Canada to test ways in which the Canadian health care system can be improved and ensure its sustainably for the future.

PUBLIC HEALTH

9.4.9 Indigenous Services Canada (ISC)

The department of the Government of Canada with responsibility for policies relating to Indigenous peoples in Canada, that comprise the First Nations, Inuit, and Metis.

INDIGENOUS SERVICES CANADA

- ☐ Ensure that the First Nation communities have emergency management services comparable to those of Canadian in similar situations.
- ☐ Work to establish an all-hazard approach for responding to emergencies that impact First Nation communities.
- ☐ Mitigation of the effects of emergencies on First Nations reserves for which the department has legal responsibility, including arrangements for community evacuation, temporary shelter, and provision of territorial support.
- Coordination of federal assistance and response to emergencies in response to requests from territorial government authorities.
- Provide funding to cover costs related to emergency assistance in First Nations communities.
- ☐ Mitigate the effects of an emergency on First Nationals people in the area.
- Work with the Chief and Council to assess the situation, determine the most effective way to report damage.
- Work with the Chief and Council to assess the situation, determine the most effective way to repair damage and ensure delivery of programs and services to the community.

သွ

2025 Section 9.0 Page 19 of 22



9.4.10 Indian Oil and Gas Canada

Indian Oil and Gas Canada's (IOGC) mandate is to further First Nation initiatives to manage and control their oil and gas resources (i.e. governance).

According to the Indian Oil and Gas Regulations, every operator must adhere to all provincial laws applicable to non-Indian lands. This includes the environment, exploration, development, treatment, conservation or equitable production of oil and gas and that are not in conflict with the (Indian Oil and Gas) Act or Regulations.

Note: First Nations reserves and Métis settlements within the EPZ are considered to be local authorities and are required to be notified and consulted as a local authority.

Indian Oil and Gas Spill Reporting Regulations

Indian Oil and Gas Canada, the First Nation and the provincial authority must be notified immediately in the event of any health or environment-threatening emergency or off-lease spills on First Nation reserve lands. On-lease spills greater than 1 m³ must be reported to Indian Oil and Gas Canada (IOGC) immediately.

2025 Section 9.0 Page 20 of 22



9.4.11 ERAC – A Not-For Profit Organization

Emergency Response Assistance Canada (ERAC) is a not-for-profit corporation created by industry for industry and is a subsidiary of the Canadian Propane Association (CPA). As a co-operative emergency preparedness and response organization, ERAC is instrumental in assisting hundreds of industry and transportation organizations requiring Emergency Response Assistance Plans (ERAPs).

ERAC's Emergency Response Assistance Plan (ERAP) provides emergency response support to road, rail and stationary tank incidents for vessels.

ERAC Response TDG (ERAP) and CEPA (E2)

ERAC's emergency responders are available 24/7 through their Emergency Call Centre (ECC) telephone number.

When the ECC number has been called, the Emergency Call Centre Operator (ECCO) connects with a Home Base Coordinator (HBC) to provide details on the incident. The HBC assesses the situation based on the information provided and then determines the closest Remedial Measures Advisor (RMA) or Technical Advisor (TA) to be sent to the scene of the emergency. A response team may be dispatched if necessary. If your company is involved in an emergency, the HBC will contact you for permission to implement the plan.

Home Base Coordinator

The Home Base Co-ordinator (HBC) performs the vital function of keeping the ECCO, RMA's, TA's response teams once they assess the situation based on the information that is provided by the ECCO. Their role then throughout is provide constant communication to your company designate(s). This starts from the moment ERAC gets the call and continues until the emergency has been handled successfully. If your company is involved in an emergency, the HBC will contact you for permission to activate the plan.

Remedial Measures Advisors and Technical Advisors – First on the scene

Once the RMA or Technical Advisor is determined which is based on geographic location to the incident the arrival time is an estimated 6 hours or less from the original callout to being on-site. Once at scene this role provides technical and product subject matter expertise by providing advice and assistance in handling the incident. In some instances, they may also conduct minor repairs.

Response Teams - Hand on expertise

These teams will be activated if necessary and dispatched through the HBC. Once activated they'll bring all necessary equipment and expertise to perform remedial measures. ERAC emergency responders are experts in initial containment, confinement, transferring, flaring products and purging LPG and flammable liquids containers.

2025 Section 9.0 Page 21 of 22



ERAP Response

Who completes the following tasks, the Plan Participant and / or the ERAC?

	Question	Answer		
1.	Secure accident site upon arrival?			
2.	Call ERAC to advise of Incident by phone and take direction from Home Base Co-ordinator?	Plan Participant		
3.	Conduct site assessment to identify hazards?	ERAC		
4.	Implement emergency response procedures as outlined in the ERAP?	ERAC		
5.	Conduct formal accident assessment (including inspect damaged transport vehicle, etc.)?	ERAC		
6.	Notify appropriate regulatory authorities? Answer: Person(s) in care and control e.g. Trucker.	Plan Participant		
7.	Contact local residents?	Plan Participant		
8.	Transfer dangerous goods from damaged containment?	ERAC		
9.	Responsible for obtaining and providing the recovery means of containment (e.g. Truck tank(s) or Rail car(s))?	Plan Participant		
10.	Person (s) responsible for any communications e.g. Media, public, corporate?	Plan Participant		
11.	Provides transportation to incidents which cannot be accessed by land. (e.g. barge offshore)?	Plan Participant		

ERAP Tiered response levels

Two response tiers are based on the level of response needed to address the release or anticipated release of dangerous goods.

A person who implements an ERAP to tier 1 must:

- provide technical or emergency response advice as soon as possible after a request for advice;
 and
- remotely monitor the response to the release or anticipated release.

A person who implements an ERAP to tier 2 must:

- provide technical or emergency response advice as soon as possible after a request for advice;
- monitor the response to the release or anticipated release; and
- send ERAP emergency response resources to the location of the release or anticipated release.

ERAP implementation report

Each time an ERAP is implemented to tier 1 or tier 2, an ERAP implementation report must be made by the person listed in the ERAP to the Canadian Transport Emergency Centre (CANUTEC) at 1-888-CANUTEC (1-888-226-8832) or 613-996-6666 as soon as possible.

ERAP Response Parameters

As Canada's emergency preparedness and response organization, ERAC assists Plan Participant members who transport specified products by road or rail, or those who store these products in tanks with capacities of 450 litres or greater. See link for details on ERAP specified products https://erac.org/en/services/emergency-response-assistance-plans/

2025 Section 9.0 Page 22 of 22



9.5 CANADA ENERGY REGULATOR

The Canada Energy Regulator (CER) is an independent federal agency established to regulate international and interprovincial aspects of the oil, gas and electric utility industries.

CER-regulated companies have the primary responsibility for ensuring safety and environmental protection because they are the owners, designers, builders and operators of the facilities. The CER recognizes this responsibility in the ongoing development of goal-oriented regulation that places the onus on companies to ensure their facilities are safe and secure and are operated in an environmentally responsible manner. The CER plays a significant role by ensuring that the companies maintain or improve their safety and environmental performance. The CER ensures that companies:

- Identify and manage the potential hazards associated with their facilities and operations.
- Conduct a risk analysis of those hazards.
- Eliminate, reduce and manage the risks in order to protect the public and regulated company personnel, the safety and security of the facilities and operations, and the protection of property and the environment.

All companies under the CER's jurisdiction are responsible for developing and maintaining an Emergency Response and Preparedness Program generically referred to as "Emergency Management Program" for all aspects of their operations. In the event an emergency occurs, the regulated company is responsible for responding to the emergency and coordinating emergency response activities.

- That result in death or serious injury.
- Involve a significant release of hydrocarbons.
- Could result in potential or real impact due to loss of service.
- Attract significant media attention.
- On the advice of Natural Resources Canada (NRCan) or other federal Agencies.

All inter-provincial and cross border pipelines are regulated by the CER and require an Emergency Response Plan. To fully comply with the CER Onshore Pipeline Regulations (OPR) and meet CER expectations for an effective emergency preparedness program, NorthRiver is required to have an emergency procedures section for the field operations and conduct emergency response training and exercises.

2025 Section 9.0 Page 1 of 7



9.5.1 Contact Information

All incidents, accidents and occurrences as defined by the Onshore Pipeline Regulations (OPR), the Canada Labour Code, and the Transportation Safety Board (TSB) Regulations should be reported.

CALL

For emergencies involving inter-provincial or cross border pipelines, the CER is the Regulatory Authority.

In the event of a CER regulated pipeline emergency, call the TSB's 24-hour hotline (collect calls accepted). The TSB will contact the CER to notify them of the incident.

1-819-997-7887

ONLINE REPORTING

Report all events on the CER's Online Event Reporting System.

This system is intended for use by regulated companies to provide notification to the Canada Energy Regulator (CER) and Transportation Safety Board (TSB) of various events that are defined in regulation including incidents, unauthorized activities, and operations and maintenance activities.

https://apps.cer-rec.gc.ca/ers/home/index

9.5.2 Roles and Responsibilities

CANADA ENERGY REGULATOR

- Monitors, observes and assesses the overall effectiveness of the company's emergency response in terms of:
 - Emergency Management
 - Safety
 - Security
 - Environment
 - Integrity of operations and facilities, and
 - Energy Supply.
- ☐ Investigates the event, either in cooperation with the Transportation Safety Board of Canada, under the Canada Labour Code, or as per the Canada Energy Regulator Act or Canada Oil & Gas Operations Act (whichever is applicable).
- ☐ Inspects the pipeline or facility.
- Examines the integrity of the pipeline or facility.
- Requires appropriate repair methods are being used.
- Requires appropriate environmental remediation of contaminated areas is conducted.
- Coordinate stakeholders and Indigenous community feedback regarding environmental clean-up and remediation.
- Confirms that a company is following its Emergency Procedures Manual(s), commitments, plans, procedures, and CER regulations and identifies non-compliances.
- Initiates enforcements action as required.
- Approves the restart of the pipelines.



9.5.3 CER Definitions of Incident and Emergency

Incident

Incidents and releases reportable to the CER under sections 1 and 52 of the OPR are:

- The death of or serious injury to a person.
- A significant adverse effect on the environment.
- Unintended fire or explosion.
- Unintended or uncontained release of low-vapour pressure (LVP) hydrocarbons in excess of 1.5 m³
- Unintended or uncontained release of gas or high-vapour pressure (HVP) hydrocarbons.
- Operation of a pipeline beyond its design limits as determined under CSA Z662, CSA Z276 or any
 operating limits imposed by the CER.

Although incidents are defined in the OPR, it is also necessary for companies to have a clear understanding of what constitutes incidents and emergencies at their facilities, as well as methods or procedures for determining the magnitude and levels of an emergency as circumstances change.

Emergency

Can/CSA – Z731 and CSA Z246 defines an emergency as "a present or imminent event that requires prompt coordination of actions or special regulation of persons or property to protect the health, safety or welfare of people or to limit damage to property and the environment".

Companies must consider all probable emergencies and have applicable procedures in place to deal with potential effects and treats to people, property and the environment, as determined through a formal hazard assessment.

Level 1	Level 2	Level 3
 No effects outside company property Control of Hazardous substance completed or pending No immediate threat to the public or company personnel Minimal environmental effects Incident/Spill handled by company personnel Low potential to escalate 	 No immediate threat outside company property but potential exists to extend beyond property boundaries Outside services and government agencies likely to be directly involved Imminent control of hazardous substance probable Some injury or threat to the public and company personnel Moderate environmental effects 	 Serious injury to the public and company personnel and ongoing threat to the public Uncontrolled release of hazardous substance continuing Significant and ongoing environmental effects Immediate and significant government agency involvement Assistance from outside parties required Effects extend beyond company property

2025 Section 9.0 Page 3 of 7



9.5.4 CER Event Reporting

The task of completing the notifications will be completed by the Company's EOC Liaison Officer.

The Transportation Safety Board of Canada (TSB) has the option to choose to be the lead investigator for determining the cause and contributing factors leading to an incident/ emergency.

For the CER's Event Reporting Guidelines, please refer to the following:

Canada Energy Regulator Event Reporting Guidelines Revised October 2020

https://www.cer-rec.gc.ca/bts/ctrg/gnnb/rprtnggdlns/index-eng.html

Canada Energy Regulator Online Event Reporting System (OERS)

https://apps.cer-rec.gc.ca/ers

Precautionary Approach

It is the CER's expectation that each company take a precautionary approach to the reporting of events. This means that even if there is some doubt as to whether an event should be reported, the company is to report the event. In other words, companies should adopt a "when in doubt, report" approach. This approach to event reporting is consistent with CER-regulated companies' responsibility for anticipating, preventing, mitigating and managing incidents of any size or duration.

The CER's Online Event Reporting System (OERS) now contains a field where the company must indicate that it is reporting an incident on a precautionary basis. In these cases, the CER will determine whether the incident is reportable based on information provided by the company. In cases where an event was reported using the precautionary approach and subsequent information indicates that it was not reportable, the CER records will reflect this, and the event will not be included on the company's compliance record and will not be posted on the CER Interactive Incident Map.

Immediately Reportable Events

Where regulations require an event to be reported "immediately", companies must also consider whether the event meets any of the following definitions:

- An Incident that Harms People or the Environment:
 - o a death:
 - a serious injury (as defined in the OPR or TSB regulations);
 - o an unintended or uncontrolled LVP hydrocarbon release in excess of 1.5 m³ that leaves company property or occurs on or off the right of way;
 - o an unintended or uncontrolled sweet natural gas or HVP release >30,000 m³;
 - o any unintended or uncontrolled release of sour natural gas or hydrogen sulfide; and/or
 - o a significant adverse effect on the environment.
- A Rupture:
 - an instantaneous release that immediately impacts the operation of a pipeline segment such that the pressure of the segment cannot be maintained.
- A Toxic Plume
 - a band of service fluid or other contaminant (e.g. hydrogen sulfide or smoke) resulting from an incident that causes people, including employees, to take protective measures (e.g. muster, shelter-in-place or evacuation).

2025 Section 9.0 Page 4 of 7



Where an event meets any of the above definitions, companies are required to notify the TSB Reporting Hotline at 1-819 997-7887. Subsequently, the company is required to input the details required by both the TSB and the CER into the OERS. The phone notification and the input of information into OERS are required to occur as soon as possible and no later than three hours of the incident being discovered. The goal of the initial phone notification is to allow the relevant agencies to mobilize a response to an incident, if required. Note that OERS will automatically determine whether the event meets the definition of an "Incident that Harms People or the Environment", however the company will be responsible for specifically indicating whether the incident meets the definitions of "Rupture" and "Toxic Plume".

For all other events that do not meet any of the definitions in this section, companies are not required to phone the TSB Reporting Hotline but must report the event as soon as possible and no later than twenty-four hours after the event was discovered.

Multiple Incident Types

It is possible that a single occurrence may result in multiple incident types. If multiple incident types occur as a result of a single occurrence, companies are expected to report those incident types under a single incident report.

Examples of situations where this might be the case include but are not limited to:

- a pipeline rupture (occurrence) where there is a release of gas (incident type) and an explosion (incident type);
- an industrial accident (occurrence) that causes a death (incident type), a serious injury (incident type) and a fire (incident type);
- an operational malfunction (occurrence) that causes an overpressure (incident type) and a release
 of product (incident type); or
- an operational malfunction (occurrence) that causes several concurrent or immediately consecutive overpressures (incident types).

In cases where an incident has occurred, and a second incident occurs during the response to the initial incident (e.g. a fire occurs during the clean-up of a spill), the second incident is considered distinct and should be reported separately.

9.5.5 Notifications and Preliminary Incident Reports

For initial notifications for all incidents and Preliminary Incident Reports, companies must provide, via the OERS, the following information:

- company contact information;
- date and time of occurrence and/or discovery;
- how the incident was discovered (e.g., routine patrol, landowner/public reported);
- type of incident being reported (e.g. death, release of substance, fire/explosion);
- type of substance released and initial release volume estimate, if applicable;
- qualitative details of incident type (e.g., broken bone if serious injury, exposure of a pipeline in a water body if operation beyond design limits, etc.);
- nearest populated center;
- GPS coordinates of the event in decimal degrees:
- facility name/pipeline name;
- narrative that includes a description of the events leading up to the occurrence or discovery and
 any immediate actions taken to protect the safety of the public, the company's employees, and/or
 the environment (e.g., evacuation, containment of product);
- initial narrative information on the component that failed, if applicable; and
- affected lands (e.g., restricted to company owned land, right-of-way, private land, crown land).

9.5.6 Detailed Incident Reports

For Detailed Incident Reports, companies must provide, via the OERS, the following information:

 any relevant updates to the information contained in the notification and/or preliminary incident reports;

2025 Section 9.0 Page 5 of 7



- detailed information on the pipeline/facility component that failed (e.g., equipment type, such as gate valve, and the component that failed, such as the valve packing), if applicable;
- operating conditions of the pipeline/facility at the time of incident discovery (e.g. operating pressure, product type, depth of cover, etc.), if applicable;
- maintenance history of failed component (e.g., date of last inspection/maintenance, type of inspection such as visual or non-destructive examination, etc.), if applicable;
- corrective actions completed by the company to prevent reoccurrence of the incident at local level;
- preventative actions completed by the company to prevent the similar incidents across its systems (if applicable, see appendix 1 for additional guidance);
- root cause analysis that includes at least one immediate cause (e.g., equipment/component failure), as well as at least one basic (root) cause (e.g., normal wear and tear); and
- supporting information (e.g., metallurgical reports), if applicable.

9.5.7 Incident Costs

The CER now expects companies to report on costs, as described below, for any incident that meets the following definition under any of the CER's regulations:

- i. An unintended or uncontrolled release of low-vapour pressure (LVP) hydrocarbons in excess of 1.5 m³ that extends beyond a company's property;
- ii. Significant adverse effect on the environment;
- iii. A rupture;
- iv. A toxic plume; and/or
- v. A loss of containment of any fluid from a well.

Companies will be expected to report categorized costs related to the incident as follows:

- Category 1 Actual costs (to be reported separately) related to:
 - The emergency response, including containment of the incident;
 - The clean-up and remediation of the incident; and
 - The repair or replacement of regulated facilities.
 - Category 2 Actual or estimated value of losses or damages not included in Category 1.

Companies are expected to provide the above costs annually (calendar) beginning the year the incident was reported and ending either when there are no further costs related to the incident or 5 years after the incident was reported (inclusive of the year that it was reported), whichever occurs first.

Reporting of costs will be integrated into the OERS at a later date and at that time OERS will automatically determine when companies are required to report costs. However, until the system changes are made, the CER will contact companies on an as-needed basis and will provide instructions and a standard form to report costs.

9.5.8 Published Manuals

All companies operating an oil or a gas pipeline under the jurisdiction of the CER must:

- 1. Unless the CER otherwise directs, publish the entirety of their emergency procedures manuals on their company's public internet site; provided however, manuals are not required to be published for pipelines described in the exemption clause below. Companies may protect from publication the following information:
 - a. an identifiable individual, including their name, phone number, email address, mailing address and medical condition;
 - b. the vulnerability of particular structures, including methods employed to protect those structures;
 - c. that could prejudice their competitive position or reasonably be expected to result in a material loss or gain to a person affected by publication; and
 - d. about a person, such as a daycare, school or hospital, that was requested by that person to be withheld from publication;

2025 Section 9.0 Page 6 of 7



- 2. Describe information that is protected from publication; and
- 3. File a written confirmation from the company's accountable officer that the company's emergency procedures manuals have been published and provide a link to the published manuals to the CER and to any interested person that has expressed an interest to the company in the published manuals.

Exemption Clause

Pipelines described in this section are exempt from publication.

High vapour pressure pipelines that are:

- 1. 168 millimeters or less in outside nominal diameter;
- 2. 10 kilometres or less in length; and
- 3. Outside of class 2 or greater locations, as determined by CSA Z662.

Liquid pipelines that are:

- 1. 168 millimeters or less in outside nominal diameter;
- 2. 10 kilometres or less in length; and
- 3. Located more than 500 metres from a navigable water, public drinking water source or a designated environmentally sensitive area.



10.0 APPENDIX



10.1 Properties of Hydrogen Sulphide (H₂S)

 H_2S gas (also commonly referred to as sour gas) is naturally occurring, colourless, flammable, and toxic and is slightly heavier than air. At very low concentrations, it has an offensive odour (similar to rotten eggs), but at higher concentrations or with prolonged exposure it deadens the sense of smell. Concentrations of H_2S are generally measured in parts per million (ppm). 1 ppm means that there is one part of H_2S gas in one million parts of air (1% H_2S gas concentration equals 10,000 ppm). It affects people differently depending on concentration and length of exposure.

Concentration (ppm)	Health Effects
0.01 - 0.3	Odour threshold
1-20	Offensive odour, possible nausea, tearing of the eyes or headaches with prolonged exposure
20-50	Nose, throat and lung irritation; digestive upset and loss of appetite; sense of smell starts to become fatigued; acute conjunctivitis may occur (pain, tearing and light sensitivity)
100-200	Severe nose, throat and lung irritation; ability to smell odour completely disappears.
250-500	Pulmonary edema (buildup of fluid in the lungs)
500	Severe lung irritation, excitement, headache, dizziness, staggering, sudden collapse (knockdown), unconsciousness and death within a few hours, loss of memory for the period of exposure
500-1000	Respiratory paralysis, irregular heartbeat, collapse and death without rescue.
>1000	Rapid collapse and death

10.2 Properties of Sulphur Dioxide (SO₂)

SO₂ gas is a colourless, non-flammable, non-explosive gas, and has a pungent odour such as a burning match. SO₂ is a by-product from the combustion of hydrogen sulphide and would only be present if the source of H₂S was ignited.

In its normal state SO_2 is heavier than air, however during the combustion process, the heat from the fire will carry the SO_2 and smoke upwards resulting in rapid dispersion and low concentration values.

Toxicity Information									
Concentration (ppm)	Effects								
2	8-hour exposure limit								
3 – 5	Odour detection threshold								
5	15-minute exposure limit								
6 – 50	 Exposure for 5 to 15 minutes irritates the eyes and may irritate the respiratory system (e.g. choking and coughing) Possible nosebleed under extended exposure 								
50 – 100	 Irritation increase may become unbearable and vision impossible 								
Over 100	 Immediately dangerous to life Immediate feeling of suffocation 								

10.3 Legal Survey Description (LSD) Reference Tool (Alberta)

- Each township (6 mile x 6 mile) is divided into 36 sections (1 mile x 1 mile)
- Each section is divided into 16 legal sub-divisions (LSD)
- Each section is divided into four quarters (N.W., N.E., S.W., and S.E.)

The numbering of sections and LSDs is shown below:



	~		— RANG	GE						
	31	32	33	34	35	36				
	30	29	28	27	26	25				
- AHS	19	20	21	22	23	24		SEC	TION	
— TOWNSHIP	18	17	16	15	14	13	13 — N 12		15 — N 10	16 E —
	7	8	9	10	11	12	5 —S	6	7 —S	8
	6	5	4	3	2	1	4	3	2	1

- Townships increase in number from South to North starting at the Canada USA border.
- Ranges increase in number from East to West within a Meridian. A Range is one Township wide (6 miles).
- Meridians run from the North Pole to the South Pole and are spaced every four degrees. The principal Meridian in Canada originates in Central Manitoba and increases West or East from there.
- Legal land description is listed in the following order:

	LSD	Section	Township	Range	Meridian	
Example:	02	01	38	09	West of the 4th	



10.4 National Topographic System (NTS) Reference Tool

Based on the national topographic series map numbering system terms as follows:

Primary Quadrangle: A 4° x 8° in geodetic latitude and longitude (e.g. Primary Quadrangle 93).

Lettered Quadrangle: 1/16 of a Primary Quadrangle 1° in latitude by 2° in longitude, lettered A to P (e.g.

93-P).

N.T.S. Grid Area: 1/16 of Lettered Quadrangle 15' in latitude by 30' in longitude, numbered 1 to 16

(e.g. 93-P-9).

An area 1/12 of an NTS map 5' in latitude by 7'30" in longitude, lettered A to L (e.g.

H/93-P-9).

Unit:

A block is divided into 100 numbered parts, 10 to a side, each part called a unit and

has a latitudinal extent of 30" and longitudinal extend of 45" (e.g. 29-H/93-P-9).

Quarter Section: 1/4 of a Unit, lettered a to d (e.g. a-29-H/93-P-9).

The area contained by a unit decreases to the north from 86.016 HA at 48° latitude to 64.782 HA at 60° latitude.

Example: a-29-H/94-P-9

Primary Quadrangle Lettered Quadrangle Μ Ŋ. 0 NTS Grid Area 93-P-**9** Κ J Е F G Н 13 15 16 D С В 12 11 10 9 5 6 7 8 2 4 3 Block H H/93-P-9 Unit 29 29-H/93-P-9 K. I 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 Ε F G Н 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 В Ď, 60 59 58 57 56 55 54 53 52 51 Quarter Section a 50 49 48 47 46 45 44 43 42 41 a-29-H/93-P-9 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 d С 20 19 18 17 16 15 14 13 12 11 b 10 9 8 7 6 5 4 3 2 1 а

2025 Section 10.0 Page 3 of 14



10.5 HVP - Proposed EPZ Distances for Selected Diameters

Pipelir	ne Size	Ethane, Propane, and Butane Mix (no Ethylene)	Ethylene		
3"	88.9 mm	250 m	250 m		
4"	114.3 mm	300 m	350 m		
6"	168.3 mm	500 m	550 m		
8"	219.1 mm	700 m	750 m		
10"	273.1 mm	900 m	1000 m		
12"	323.9 mm	1100 m	1200 m		
16" 403.4 mm		1600 m	1600 m		

CAPP Companion Planning Guide to ERCB Directive 071, July 2008

10.6 Conversion Table

H₂S	10 moles	1%	10,000 ppm	14,000 mg/m ³	
Pressure	1 PSI	6.895 kPa	1 kPa	0.15 PSI	
	1 inch	2.54 cm	1 cm	0.39 inches	
	1 foot	0.31 m	1 m	3.281 feet	
	1 yard	0.914 m	1 m	1.09 yards	
Length	1 mile	1.609 km	1 km	0.62 miles	
	1 mile	5280 feet	-	-	
	1 mile	1760 yards	-	-	
	1 km	1000 m			
	1 litre	0.22 gallon (imp)	1 gallon (imp)	4.546 litres	
	1 barrel	42 gallon (US)	1 gallon (US)	0.024 barrels	
	1 barrel	0.16 cubic metres	1 cubic metre	6.29 barrels	
	1 cubic metre	35.31 cubic ft	1 cubic ft	0.028 cubic metres	
Volume	1 cubic yard	0.76 cubic metre	1 cubic metre	1.31 cubic yards	
	1 gallon (US)	0.83 gallon (imp)	1 gallon (imp)	1.2 gallon (US)	
	1 gallon (US)	3.785 litres	1 litre	0.26 gallon (US)	
	1 sq mile	2.59 sq km	1 sq km	0.39 sq miles	
	1 cu inch	16.39 cu cm	1 cu cm	0.06 cu inches	
	1 pound	0.454 kg	1 kg	2.2 pounds	
Weight	1 ton	2000 pounds	1 pound	0.0005 tons	
weight	1 ton	907 kg	-	-	
	1 tonne	1.102 tons	1 ton	0.907 tonnes	
	1 acre	.404 hectare	1 hectare	2.471 acres	
Area	1 section	640 acres	-	-	
Alea	1/4 section	160 acres	-	-	
	1 LSD	40 acres	-	-	
Temperature	0° Celsius	32° Fahrenheit	0° Fahrenheit	-18° Celsius	
Other	1 dek	10 ³ m ³	-	-	



10.7 NATO Phonetic Alphabet

Letter	Code word
Α	Alpha
В	Bravo
С	Charlie
D	Delta
E	Echo
F	Foxtrot
G	Golf
Н	Hotel
I	India
J	Juliet
K	Kilo
L	Lima
М	Mike

Letter	Code word
N	November
0	Oscar
Р	Papa
Q	Quebec
R	Romeo
S	Sierra
T	Tango
U	Uniform
V	Victor
W	Whiskey
Х	X-ray
Υ	Yankee
Z	Zulu
- (hyphen)	Dash

10.8 Glossary

 10^3 m³ (e³m³): 1000 cubic metres per day.

Absolute Open Flow: The rate at which a well would produce against a zero sandface back pressure.

Adjacent to: For the purpose of this plan, refers to the immediate 25 metres.

Adverse Effect: The impairment of or damage to the environment, human health or safety, or

property.

Agency: A division of government with a specific function offering a particular kind of

assistance. Agencies are defined as jurisdictional (having statutory responsibility for incident management) or as assisting or cooperating (providing resources or other

assistance).

Air Quality Monitoring: The measurement of atmospheric concentrations of a gas such as H₂S or SO₂.

ALS An abbreviation for Advance Life Support.

Auto-Ignition Temperature: All NGL products are flammable and will flash at extremely low temperatures. An

open flame or spark is not necessary to cause ignition. Any hot surface which exceeds the auto-ignition temperature of a product can cause a fire if the vapours

reaching the hot surface are within their flammable range.

Battery: A group of tanks in the gathering system, they receive oil directly from the wells.

bbl: An abbreviation for barrel.

BLS An abbreviation for Basic Life Support.

Boiling Liquid Expanding A boiling liquid expanding vapour explosion is usually associated with natural gas

Vapour Explosion (BLEVE): liquids and high vapour pressure liquids. This is a type of explosion that can occur

when a vessel containing a pressurized liquid is ruptured.

Booster Pump: A small pump that pulls product from the source of supply and pumps it into the

suction, or input of the main pump unit.



Businesses: Industrial operators, retail suppliers, service providers, trappers, loggers and other

entities who normally operate within the EPZ, but do not necessarily reside in the

EPZ.

Camp: A geographical site equipped and staffed to provide sleeping, food, water, and

sanitary services to personnel.

Ceiling – Recommended

Exposure Limit:

The concentration that should not be exceeded during any part of the working exposure. An employee's exposure to a hazardous substance shall at no time

exceed the ceiling value.

CER Canada Energy Regulator

Chain of Command: A series of command, control, executive, or management positions in hierarchical

order of authority.

Command Staff: In an incident management organization, the Command Staff consists of the Incident

Command and the special staff positions of Officer, Chief and other positions as required, who report directly to the Incident Commander. They may have assistants

as needed.

Condensate: The liquid formed by the condensation of a vapour or gas; specifically, the

hydrocarbon liquid separated from natural gas because of changes in temperature and pressure when the gas from the reservoir was delivered to the surface

separators.

Control Valve: A valve that will automatically maintain a predetermined pressure upstream or

downstream of the valve or will maintain a controlled flow rate through the valve.

Emergency Operations

Centre (EOC):

Focal point for the communication of support functions provided by Head Office personnel and (potentially) contract specialists. They should provide advice,

direction and logistical support to the Site Command personnel.

Downstream: With reference to a pumping station, indicates the discharge side of that station.

Emergency Planning Zone

(EPZ):

An EPZ is a geographical area surrounding a well, pipeline, or facility containing hazardous product that requires specific emergency response planning by the

licensee.

Emergency Response Plan

(ERP):

A comprehensive plan to protect the public that includes criteria for assessing an emergency situation and procedures for mobilizing response personnel and

agencies and establishing communication and coordination among the parties.

Emergency Shutdown Valve

(ESD):

A valve that blocks the passage of material from both directions and can automatically close when the amount of material passing through the valve

exceeding allowable limits.

ERAC: An abbreviation for Emergency Response Assistance Canada. A not-for-profit

emergency preparedness and response organization who develops, implements and responds to Emergency Response Assistance Plans (ERAPs) for more than

300 Plan Participant Members of ERAC.

ERAP: An ERAP or Emergency Response Assistance Plan is a plan that describes what is

to be done in the event of a transportation accident involving certain higher risk dangerous goods. The ERAP is required by the Transportation of Dangerous Goods Regulations (TDGR) for dangerous goods that require special expertise and response equipment to respond to an incident. The plan is intended to assist local



emergency responders by providing them with technical experts and specially trained and equipped emergency response personnel at the scene of an incident.

Explosive Limit: Each gaseous hydrocarbon substance has a minimum lower explosive limit (LEL)

> and a maximum upper explosive limit (UEL) percentage in the air below or above which combustion will not take place. Explosive limit and flammability limit are used interchangeable. The terms 'too lean' and 'too rich' are used for levels outside of the

explosive range.

Facility: Any building, structure, installation, equipment or appurtenance over which the

Regulatory Authority has jurisdiction and that is connected to or associated with the recovery, development, production, handling, processing, treatment or disposal of hydrocarbon-based resources or any associated substances or wastes. This term

does not refer to or include wells or pipelines.

Field Separator: A vessel in the oil and gas field for separating gas, hydrocarbon liquid, and water

from each other.

Flammability Limit: The lower flammability limit is the minimum percentage volume of a combustible gas

in an air mixture that will support combustion at certain pressure and temperature

conditions.

The higher flammability limit is the maximum percentage volume of a combustible gas in an air mixture that will support combustion at certain pressure and

temperature conditions.

Note: Data for flammability limits is often published for standard atmospheric and temperature conditions. Refer to the Safety Data Sheet (SDS) for specific product

information.

Flaring/Venting: The controlled burning (flare) or release (vent) of natural gas that can't be processed

for sale or use because of technical or economic reasons.

Flash Point: The lowest temperature at which vapours over a volatile combustible substance will

ignite when exposed to an external source of ignition (and will continue to burn after

the source is removed).

Flexibility: A principle of ICS that provides a consistent and adjustable framework within which

> government and private entities at all levels can work together to manage domestic incidents, regardless of their cause, size, location, or complexity. This flexibility applies across all phases of the incident management: prevention, preparedness,

response, recovery, and mitigation.

Flow Rate: The speed in which the product is flowing, computed in cubic metres per second

 (m^3/s) .

The network of pipelines, pumps, tanks and other equipment that carry oil and gas Gathering System:

to a processing plant or to other separation equipment.

Government Emergency Operations Centre (GEOC):

An operations centre with the capacity to accommodate representatives from each

government department.

Hazard: A situation with potential to cause harm to persons, property, or the environment.



High Vapour Pressure (HVP):

HVP products have a vapour pressure greater than 240 kPa at a temperature of 38° C (34.8 psig at 100 °F). They include ethane, propane, butane, and pentanes plus either as individual products or as a mixture. A leak from a vessel or pipe containing HVP products can result in a BLEVE.

High Vapour Pressure (HVP) Pipeline:

A pipeline system conveying hydrocarbons mixtures or hydrocarbon mixtures in the liquid or quasi-liquid state with a vapour pressure greater than 100 kPa absolute at 38°C, as determined using the Reid method. Some examples are liquid ethane, ethylene, propane, butanes, and pentanes plus.

Hazard Planning Zone (HPZ):

Hazard planning distances are used to identify a geographical area (a hazard planning zone) within which persons, property or the environment may be affected by an emergency. The combined geographic areas of hazard planning zones are used by the applicant or permit holder to identify an EPZ where immediate response actions are required in the event of an emergency.

The HPZ has been determined by CANUTEC as the area that requires immediate precautionary measures whereby the spill or leak is to be isolated in all directions for the specified distance.

Hydrogen Sulphide (H₂S):

A naturally occurring gas found in a variety of geological formations and also formed by the natural decomposition of organic matter in the absence of oxygen. H₂S is colourless, heavier than air, and extremely toxic. In small concentrations it has a rotten egg smell and causes eye and throat irritation.

Hydrogen Sulphide (H₂S) Release Rate: The rate at which the sour gas escapes into the atmosphere is calculated for sour gas wells. The rate is usually given in cubic metres per second (m^3/s). The size of the EPZ is calculated based on the H_2S release rate.

Hydrogen Sulphide (H₂S) Release Volume: The volume of sour gas that escapes into the atmosphere is calculated for facilities that have a defined retention volume. It is usually defined in cubic metres (m³). EPZ sizes are calculated using the volume of gas that may be released from a facility.

Ignition Team:

A two-person team assigned the responsibility of igniting a sour gas plume.

Incident:

An unexpected occurrence or event that requires action by emergency response personnel to prevent or minimize the impacts on the safety and health of people as well as on property and the environment.

Incident Action Plan (IAP):

An Incident Action Plan formally documents incident goals, operations period objectives and the response strategy defined by incident command during emergency response planning.

Incident Classification:

A system that examines the risk level to members of the public following an incident and assigns a level of emergency based on the consequence of the incident and the likelihood of the incident escalating.

Incident Command System (ICS):

The incident command system is a standardized response protocol. It is a combination of facilities, equipment, personnel, procedures and communications operating with a common organization structure with responsibility for the management of assigned resources to effectively accomplish stated objectives pertaining to the incident.



Incident Commander: The Incident Commander role should be assigned to the most experienced company

supervisor or representative at the incident site. The Incident Commander has the responsibility to manage the on-site activities and the implementation of a safe and

effective tactical response.

Incident Objectives: Statements of guidance and direction necessary for selecting the appropriate

strategy and tactical direction of resources. Incident objectives are based on realistic expectations of what can be accomplished when all allocated resources have been effectively deployed. Incident objectives must be achievable and measurable, yet

flexible enough to allow strategic and tactical alternatives.

Joint Venture Partner: Two companies working together to combine resources to complete a capital

project.

Kick: A situation where the formation pressure exceeds the static pressure in the well bore

allowing formation fluid to enter.

Km: An abbreviation for kilometre; a unit of length in the metric system, equal to one

thousand metres.

kPa: An abbreviation for kilopascal; it is a measure of force per unit area, defined as one

newton per square metre. One kilopascal is about 1% of atmospheric pressure.

Leader: The ICS title for an individual responsible for a Task Force, Strike Team, or functional

unit.

Liaise: A form of communication for establishing and maintaining mutual understanding and

cooperation.

Licensee: A term used to designate the responsible duty holder (e.g. licensee, operator,

company, and applicant).

Liquefied Petroleum Gas

(LPG):

Mixture of heavier, gaseous hydrocarbons (butane and propane), liquefied as a

portable source of energy.

Local Authority: Council of a city, town, village, or municipal district.

An improvement district or special area.

The Settlement Council or a settlement under the Métis Settlements Act.

The Band Council of an Indian Band if an agreement has been entered into with the Government of Canada in which it is agreed that the Band Council is a local authority

for the purposes of the Disaster Services Act.

Local State of Emergency: A local state of emergency is authorized for a limited period of time and limited

geographical area by members of the municipal authority (city, town, municipal district or county). A local state of emergency grants extraordinary powers to the authorities such as forcibly removing public from an area or preventing the public

from entry into a designated area.

Logistics: Providing resources, material support and other services to support incident

management.

Lower Explosive/Flammable

Limit (LEL/LFL):

The lowest concentration of gas of vapour (per cent by volume in air) that burns or

explodes if an ignition source is present at ambient temperatures.

m³: An abbreviation for cubic metres.



MAWP: An abbreviation for "maximum actual or allowable working pressure".

Maximum Operating Pressure (MOP):

The maximum licensed operating pressure for a vessel or pipeline.

mcf: An abbreviation for one thousand cubic feet of gas.

Mercaptans: A sulphur containing organic compound with the general formula RSH where R is

any radical, especially ethyl mercaptan, C2H5SH.

Mmcf: An abbreviation for one million cubic feet of gas.

mSv/h The sievert (symbol: Sv) is a derived unit of ionizing radiation dose in the

International System of Units (SI). It is a measure of the health effect of low levels

of ionizing radiation on the human body.

In the SI system, a millisievert (mSv) is defined as "the average accumulated background radiation dose to an individual for 1 year, exclusive of radon, in the United States." 1 mSv is the dose produced by exposure to 1 milligray (mG) of

radiation.

Mobile Air Monitoring Unit: Personnel with sophisticated portable equipment capable of tracking substances

such as H₂S or SO₂ and of measuring very low (ppb) atmospheric concentrations.

MOU: An abbreviation for Memorandum of Understanding.

Multi-Agency Incident: An incident where one or more agencies assist a jurisdictional agency or agencies.

May be single or Unified Command.

Municipal Emergency

The centre from which responsible municipal officials manage and support Operations Centre (MEOC): operations within their jurisdiction. The MEOC personnel will formulate protective

actions and provide public information. The centre should have adequate

workspace, maps, status boards, and communications capability.

An understanding between two or more public and (or) private parties, such as oil Mutual Aid Understanding:

and gas companies, service companies, and local authorities that defines each

party's commitment to provide aid and support during an incident.

Natural Gas Liquid (NGL): These are hydrocarbons liquefied under pressure in field facilities or in gas

processing plants. Natural gas liquids include ethane, propane, butanes and

pentanes plus, and normally occur as a mixture of these compounds.

This is a notice issued by Transport Canada. A NOTAM restricts access to airspace Notice to Airmen (NOTAM):

in a defined area. NOTAMs are generally issued through the nearest flight service

station.

Odour Complaint: A member of the public has submitted either a written or verbal complaint of an odour

problem due to a gas release or venting incident.

Off-Site: The area beyond the asset property boundary.

OHS: An abbreviation for Occupational Health and Safety.

Oil Spill Containment and Recovery Unit (OSCAR):

A trailer or truck style unit which contains recovery equipment to assist in spill

containment and recovery.

On-Site: The area within the asset property boundary.



On-Site Command Post

(OSCP):

An emergency operations centre established in the immediate vicinity of the incident to provide immediate and direct response to the emergency and initially staffed by

company personnel.

Operating Personnel:

Refers to the people working in a given field area.

Operations Section:

The section responsible for all tactical incident operations. In ICS, it normally includes subordinate branches, divisions, and/or groups.

Parts Per Million (ppm):

The unit for measuring the concentration of a particular substance equal to one (1)

unit combined with 999,999 other units.

Personal Consultation:

Consultation through face-to-face visits or telephone conversations with identified parties and providing the required information packages.

Personal Protective Equipment (PPE):

Safety equipment used for an individual's protection.

Plain Language:

Common terms and definitions that can be understood by individuals for all responder disciplines. The intent of plain language is to ensure the clear and accurate communication of information during the incident.

Planning Section:

Responsible for the collection, evaluation, and dissemination of operational information related to the incident, and for the preparation and for the documentation of the Incident Action Plan. This section also maintains information on the current and forecasted situation and on the status of resources assigned to the incident.

Plume:

An elongated mobile column of gas or smoke. The term plume is often used to describe the area in which hazardous gas, such as sour gas, disperses into the atmosphere from a facility, well or pipeline. Eventually gases will dilute (with distance away from the source) to concentrations that are not considered hazardous. Plumes are generally elongated shapes that are oriented downwind of the point of the gas release.

ppb:

An abbreviation for parts per billion.

Preparedness:

The range of deliberate, critical tasks and activities necessary to build, sustain, and improve the operational capability to prevent, protect against, respond to, and recover from domestic incidents. Preparedness is a continuous process. Preparedness involves efforts at all levels of government and between government, the private sector and non-government organizations to identify threats and determine vulnerabilities and required resources. Preparedness is operationally focused on establishing guidelines, protocols, and standards for planning, training and exercises, personnel qualification and certification, equipment certification, and publication management.

Public:

Individuals (or groups of people) who may be impacted by an emergency. Example: employees, contractors, nearby residents, emergency response organizations, regulatory agencies, the media, appointed or elected officials, visitors, customers, etc.

Pump Unit:

Consists of an electric motor or engine connected to a centrifugal pump, either directly as in the case of constant speed units, or through a fluid drive, as in the variable speed pump units.



Reception Centre: A centre established to register evacuees for emergency shelter, to assess their

needs, and, if temporary shelter is not required because evacuees will stay

elsewhere, to ascertain where they can be contacted.

Regional Emergency

SDS:

Operations Centre (REOC):

An operations centre established in a suitable off-site location near the emergency to manage the large-scale aspects of the emergency response. It is manned jointly

by government and industry personnel.

Regulatory Authority: The local petroleum Regulatory Authority will participate in the emergency response

to all situations involving or threatening oilfield wells, production facilities, or

pipelines.

Relief System: The system for safely relieving excess pressure to avoid exceeding equipment

design pressure.

Residence: A dwelling that is occupied full time or part time.

Response: Activities that address the short term, direct effects of an incident. Response

includes immediate actions to save lives, protect property, and meet basic human needs. Response also includes the execution of emergency operations plans and incident mitigation activities designed to limit the loss of life, personal injury, property

damage, and other unfavourable outcomes.

Roadblock Team: Operator or Contract personnel responsible for controlling access to the EPZ.

Rover: Individual responsible for assisting the evacuation of the Emergency Planning Zone.

Safety Officer: A member of the Command Staff responsible for monitoring and assessing safety

hazards or unsafe situations and for developing measures for ensuring personnel

safety.

SCADA: Acronym for Supervisory Control and Data Acquisition.

SCBA: Acronym for Self Contained Breathing Apparatus.

Serious Injury: Can be defined as any of the following:

An injury that results in death.

A fracture or crush of a major b.

A fracture or crush of a major bone.

Penetrating injury to eye, head, neck, chest, abdomen or groin.

Amputation other than a portion of a finger or toe.
 Severe haemorrhaging - internal or external.

Third degree burn or any other degree burn with complications.

Unconsciousness.

An injury that results in paralysis (permanent loss of function or sense).

Acronym for Safety Data Sheets. A Safety Data Sheet (SDS) is a document that contains information on the potential hazards (health, fire, reactivity and

environmental) and how to work safely with a chemical product.

Shelter in Place: The use of a structure and its indoor atmosphere to temporarily separate individuals

from a hazardous outdoor atmosphere. It entails closing all household doors, windows and vents and taking immediate shelter in a readily accessible location that puts as much indoor air and mass between the individual and the hazardous outside air, such as a basement or centrally located medium to small room, and trying to make it as airtight as possible by shutting off all ventilation/HVAC systems and extensively sealing the shelter's doors and windows from all outside air contaminants with damp towels, or if available, plastic sheeting and adhesive tape.



SITREP: An abbreviation for Situation Report.

Solution Gas: Gas that originates from the liquid phase in an oil reservoir.

Sour: Liquids and gases are said to be "sour" if they contain hydrogen sulphide (H₂S),

carbon dioxide (CO₂), and/or mercaptans over a specified level.

Sour Gas: Natural gas, including solution gas, containing hydrogen sulphide (H₂S).

Sour Gas Facility: Any facility that produces, processes, or transports sour gas.

Span of Control: The number of individuals a supervisor is responsible for, usually expressed as a

ratio of supervisors to individuals. Under ICS an appropriate span of control is

between 1:3 and 1:7 with 1:5 being established as optimum.

Spill: Means a release or discharge of a substance into the natural environment.

Special Needs: Those persons for whom early response actions must be taken because they require

evacuation assistance, requested early notification, do not have telephones, require transportation assistance, have a language or comprehension barrier, or have specific medical needs. Special needs also include those who decline to give information during the public consultation process and any residences or businesses

where contact cannot be made.

Staging Area: Location established where the resources can be placed while awaiting a tactical

assignment. The Operations Section manages Staging Areas.

Stakeholders: Industry activities often affect surrounding areas and populations. People with an

interest in these activities are considered stakeholders. They may include nearby landowners, municipalities, Indigenous communities, recreational land users, other

industries, environmental groups, governments and regulators.

Substance: Any matter that is capable of being dispersed in the environment and that is capable

of causing transformations in the environment.

Sulphur: A yellow, non-metallic chemical element. In its elemental state, it has a crystalline

or amorphous form. In many gas streams, sulphur may be found in volatile sulphur compounds, e.g. hydrogen sulphide, sulphur oxides, mercaptans, carbonyl sulphide. Reduction of their concentration levels is necessary for corrosion control and, in

many cases, necessary for health and safety reasons.

Sulphur Dioxide (SO₂): A colorless, water soluble, suffocating gas formed by burning sulphur in air; also

used in the manufacture of sulphuric acid. SO_2 has a pungent smell similar to a burning match. SO_2 is extremely toxic at higher concentrations. The molecular weight of SO_2 is heavier than air; however, typical releases are related to

combustion, which makes the gaseous mixture lighter than air (buoyant).

Surface Development: Dwellings that are occupied full time or part time publicly used development, public

facilities, including campgrounds and places of business, and any other surface development where the public may gather on a regular basis. Surface development includes residences immediately adjacent to the EPZ and those from which dwellers

are required to egress through the EPZ.

Sump: An underground tank located at each pump station used to catch products that leak

through valves, meters, pump units, seal housing, etc.



Sweet: Gas containing essentially no objectionable sulphur compounds. Also, the term

sweet is used to describe treated gas leaving a sweetening unit.

Tabletop Exercise: An informal exercise generally used to review resource allocation, roles and

procedures for emergency response. It also serves to orientate new personnel to emergency operations without the stress and time constraints of a full-scale

exercise.

Technical Specialist: Personnel with special skills that can be used anywhere within the ICS organization.

Telephoner(s): Personnel assigned the responsibility to contact the area residents and/or users in

the event of an Emergency.

Transient: A person who is temporarily in the response zones (examples: camper, cross-

country skier, and hunter).

Trapper: Holder of a licensed and registered trapline for the purpose of hunting and trapping

fur-bearing animals.

Uncontrolled Flow: A release of product that the licensee cannot shut off at the licensee's discretion.

Unified Command: The Unified Command is a structure that brings together the "Incident Commanders"

of all major organizations involved in the incident in order to coordinate an effective response while at the same time carrying out their own jurisdictional responsibilities. The Unified Command links the organizations responding to the incident and

provides a forum for these entities to make consensus decisions.

Urban Center: A city, town, new town, village, summer village, hamlet, with no fewer than 50

separate buildings, each of which must be an occupied dwelling or any similar

development the AER may designate as an urban centre.

Vapour Density: A measure of the weight of the gas compared to air (air = 1).

Vapour Pressure: The pressure exerted by the vapour when the rate of evaporation is equal to the rate

of condensation of the vapour. All NGL products have vapour pressure greater than atmospheric pressure air and therefore have to be kept under pressure or else they

will vaporize.

Well Servicing: The maintenance procedures performed on a producing or injecting well after the

well has been completed and operations have commenced. Well servicing activities

are generally conducted to maintain or enhance well productivity or injectivity.

Workovers: The process of re-entering an existing well to perform remedial action that will

restore or improve the productivity or injectivity of the target formation.



11.0 FORMS

10.0	FORMS	1
10.1	Initial emergency Response Forms	2
10.1		
10.2	Jurisdictional Forms	
	.1 Alberta Forms	
-	elease Report	
	BSA Accident Reporting Form	
	lectrical Incident Report Form	
R	eport an Alberta Wildfire	g
10.2	2.2 British Columbia Forms	10
	.C. Minor Incident Notification Report	
	.C. Emergency Incident Form	
	.C. Post-Incident Report	
	icident Reporting Form	
	C Wildfire Emergency Contact Information	
10.3	ICS Forms	
	CS 201 - Incident Briefing	
10	CS 202 - Incident Objectives	34
	CS 203 - Organization Assignment List	
	CS 204 - Assignment List	
	SS 207 - Incident Organization Chart	
	SS 208 - Safety Message / Plan	
	CS 209 - Incident Status Summary	
	CS 211 - Check-In List	
	CS 214 - Activity Log	
	CS 215 - Operational Planning Worksheet	
	S 215a - Incident Action Safety Plan Analysis	
	S 221 - Demobilization Checkout	
	CS 230 – Daily Meeting Schedule	
	CS 234 – Work Analysis Matrix	
10.4		
	nvironmental Monitoring Record	
	otification Record	
	oadblock Checkpoint Record	
	pill/Release Written Report FormTARS Remote Site Landing Zone Reference Card	
	tatus Board	
	elephone Checklist for Threatening Calls	
10.5	Stakeholder Forms	
	takeholder Contact Record	
	otice of Evacuation	
	eception Centre Registration Form (to be filled out by evacuees)	
	vacuee Expense Claim Form	
10.6	Media Forms	66
Р	reliminary Media Statement	66
	ledia Contact Log	
	overnment Agency Contact Log	
	ledia Centre Site	
10.7	Administration Forms	
	ibution List	
	Manual Receipt	
Man	agement of Change Request Form	. 72

11.1 Initial emergency Response Forms

11.1.1 Form A1

This form is used at the outset of an incident to record critical information informing key personnel to ensure a rapid and appropriate response.

		ompleted by the pe	rson involve	ed or notified						
Report taken by							Date / Time			
Name of perso	n calling						Caller Telepho	one		
Traine of person calling							Canor Tolophi	0110		
Incident Locati	on				// OD	/ NITC	2)			
Event Summa	rv				(LSD	/ 11113	>)			
Zvork odmina	• •									
Agencies	☐ Yes	Who?								
Notified	□ No									
Event Status		nt contained or clent control possi			☐ Intermittent control possibl ☐ Incident is uncontrolled					
Site Type	□ Well	☐ Pipeline		☐ Tank Farm/Storage			☐ Battery/Plant/Facility		□ Oth	ner
	□ Sour (Sour Gas Release] Sweet Gas Release			☐ Pipeline Break		curity (theft, threat, sm)
Incident Type	□ Loss o	of Containment		Fire/Explosion			☐ Worker Injury/Fatality			nicle/Transportation
Турс	☐ Liquid	Spill		Other						
Impacts		·								
Public Health	and Safet	у		☐ Could be jeopardized			d ☐ Is jeopardiz		ed	
Public Protec	tion Meas	ures Taken		☐ Notification			Evacuation	☐ Shelter-in-p	ace	☐ Roadblocks
Worker Injurie	es			☐ First A	id		Hospitalized	☐ Fatality	□0	ther
Distance to nearest surface development					km		Distance to ne	earest urban centr	е	km
Details										
Release Impact □ On-Lease □ O		□ O ₁	Off-Lease Product_		t			Amount		
Gas Readings	3	H ₂ S	SO ₂ _		LEL		Other_			
Distance to ne	arest water	rcourse			km		Weather Cond	ditions		0° 360° N
									3	15° 45°

Details								
Media Involvement?	□ Yes	□ No	Regulator Involvement?	□ Yes	□ No	Public Affairs/Community Relations Issues?	□ Yes	□ No
Details								
Notes / Instruction	ons Provid	led:						

11.2 Jurisdictional Forms

11.2.1 Alberta Forms





Initial verbal notification of the release to the AER is required prior to completing this release report

General Information							
AER FIS incident no.:			EDGE refere	ence no.:			
Date AER notified:			Time:	□ p.m. □	a.m. AER contact:		
Type of report:		Pro	jected date for	r final repo	rt:		
Incident date:			Time:] p.m. □ a	.m. Incident location	: W	
Licensee/Company name:							
Licence no.:			Public lands	disposition	ı no.:		
EPEA approval no.:			Scheme/Per	mit approv	al no.:	Other AER approval no	D.:
Form completed by:				Pl	hone number:		
Release Volume Details If volumes change from what was	n initially report	ad than yarbal	notification to th	o AED io ro	quired		
Released Substance*		released	Free F		Shipped to	Licence/	Location
Neleased Substance	Volume	m ³	recove	ered m ³	(waste receiver) *	approval no.*	Location
							-
		m ³		m ³			W
		m ³		m ³			W
Gas		10 ³ m ³					
Release rate:	Duration o						
*If the released substance *Refer to ST107 for the						e reported separate	ly above.
Transfer to a first for the		арріотоа (Jillora Wast	o manag	oment (trin) identice		
Waste Recovery Volume De	etails						
Waste substance	•	Volume	recovered		Shipped to (waste receiver) *	Licence/ approval no.*	Location
Excavated soil/solids remove	d		m^3				W
			m^3				W
Contaminated surface water a removed	and/or snow		m ³				W
			m^3				W
Washwater and/or freshwater used			m ³				W
		m ³					W
Vegetation/crop bagged and/or removed			m ³				W
			m^3				W
*Refer to ST107 for the	list of AER	approved o	oilfield wast	e manage	ement (WM) facilities		
Contaminated soils stora	-				 If off site, enter location 	on: W	
On-site waste treatment	:: □ Yes □	i No W	aste Treatm	nent Desc	cription:		

Release Containment Details
☐ Within well/facility lease boundary – Contained to working surface of lease boundary: ☐ Yes ☐ No
□ Outside well/facility lease boundary
Release contained by berm: ☐ Yes ☐ No Release contained by liner: ☐ Yes ☐ No Liner type (Directive 055):
Release onto land/soil: ☐ Yes ☐ No Surface soil type: Subsurface soil type:
Release Site Details
Land jurisdiction type: Environment affected: Area affected: m ²
☐ Within public lands disposition boundary ☐ Outside public lands disposition boundary — TFA number:
Distance to closest water body: m Distance to nearest town: km Name of nearest town:
Distance to closest water well: m Distance to nearest permanent dwelling: km
Release Impacts Details
Incident/release H₂S concentration: Unit of measurement: □ % □ ppm □ mol/kmol
Wildlife/livestock affected: Equipment loss:
Emergency response plan (ERP) activated: □ Yes □ No
□ Public affected □ Public evacuation □ Number evacuated:
□ Landowner notified* □ Leaseholder notified*
□ WH&S notified* Number of injuries: Number of fatalities:
*Provide details in Additional Notifications box
Pipeline Details (fill in for AER licensed-pipeline incident)
Pipeline is not to be returned to service without permission from the AER. See www.aer.ca for definitions for incident type and cause.
Incident type: Incident cause:
Licence number: Installation cause (if applicable):
Start location: W End location: W ABSA registration number (if applicable):
Associated facility location: W Associated facility licence number:
☐ Test failure ☐ Retest segment ☐ Pipeline repair pretested ☐ Cathodic protection
Type of external coating: ☐ Corrosion mitigation/monitoring program:
Normal operating pressure: kPa Maximum operating pressure kPa
Date line shut in: Pipeline returned to service: ☐ No ☐ Yes Date:
Clean-up/Remediation Details
All releases must be remediated or managed in a matter satisfactory to the AER.
Clean-up status: Final clean-up/remediation completion date:
☐ In-situ remediation implemented
Remediation guidelines used (choose all applicable):
☐ Tier 1 ☐ Tier 2 ☐ SST ☐ SCARG ☐ CCME ☐ Exposure control
Method of subsurface delineation: Confirmatory samples taken: □ Number of samples:
Remediation certificate applied for: ☐ Yes ☐ No
Environmental contractor: Phone number:

Additional Incident Notification Deta	nils		
Name of agency/landowner	Person notified / reference no.	Phone number	Date
Incident Details			
Submit photos of the incident and o	lean-up/remediation to the AER. Fill in all text b	oxes below:	
Detailed description of circumstance	es leading up to the release:		
How release was identified:			
Steps/procedures taken to minimize	e, control, or stop release:		
Steps taken to contain release:			
If release was on lease steps taken	to ensure no migration off lease (including sub	surface migration):	
Description of how release volume(s) was determined and verified (include any cal	culations used):	
How the affected area was determin	ed (include any calculations used):		
Description of environmental impac	t :		
Clean-up operation details:			
Remediation operation details			
Release cause:			
Description of root cause:			
Steps/procedures taken to prevent	similar future releases:		

Additional comments:



AB-097 2016-08-11

ACCIDENT REPORTING FORM

Head Office

ABSA, the pressure equipment safety authority

9410 20th Avenue Edmonton, AB T6N 0A4 Telephone: (780) 437-9100 Fax: (780) 437-7787

Grande Prairie District Office

ABSA, the pressure equipment safety authority

#203, 10109 97 Avenue Grande Prairie, AB T8V 0N5 Telephone: (780) 538-9922 Fax: (780) 538-9400

Fort McMurray District Office ABSA, the pressure equipment safety authority

30C Suncor Energy Industrial Campus

Keyano College

160 MacKenzie Boulevard Ft McMurray, AB T9H 4B8 Telephone: (780) 714-3067

Fax: (780) 714-2380

Calgary District Office ABSA, the pressure equipment safety authority

Deerfoot Atria South

Suite 380, 6715 - 8 Street NE Calgary, AB T2E 7H7 Telephone:

(403) 291-7070 Fax: (403) 291-4545

Lethbridge District Office ABSA, the pressure equipment safety authority

Unit 19, 1274 – 3 Ave South Lethbridge, AB T1J 0J9 Telephone: (403) 394-1011

Fax: (403) 329-0089

Medicine Hat District Office ABSA, the pressure equipment safety authority

#103, 346-3rd Street S.E. Medicine Hat, AB T1A 0G7 Telephone: (403) 529-3514

Fax: (403) 529-3632

Red Deer District Office ABSA, the pressure equipment safety authority

#304, 4406 Gaetz Avenue Red Deer, AB T4N 3Z6 Telephone: (403) 341-6677

Fax: (403) 341-3377

ccidents do occur. And when they do, the result is injury, loss of life or damage to property. Keeping accidents to a minimum, especially where boilers, pressure vessels and pressure piping systems are concerned should be everyone's safety

objective. But when a boiler, pressure vessel or pressure piping system accident does occur, the owner or the person in charge must report the accident to ABSA, the pressure equipment safety authority.

The first step is to telephone the nearest ABSA office listed on this page. Until an ABSA Safety Codes Officer completes an investigation of the accident scene, or the ABSA Safety Codes Officer advises otherwise, nothing should be touched or removed from the accident site or the surrounding area, unless it is absolutely necessary to prevent further injury, loss of life or property damage.

The ABSA Safety Codes Officer will investigate an accident scene and file a report. However, Section 35 of the Pressure Equipment Safety Regulation under the Safety Codes Act requires that, as soon as possible, the owner or person in charge must also send a full report in writing to the Administrator. This report is required whenever injury, death or property damage results from an accident involving boilers, pressure vessels, power plants, heating plants, pressure plants or pressure piping systems.

For your convenience, a format for completing this written accident report is provided on the following pages. Your report may be in a different format however, the report must include the required information.

To report an accident, or to obtain further information about ABSA, the pressure equipment safety authority, please contact one of the offices listed.



ACCIDENT REPORT

To be completed by the owner or person in charge whenever injury, loss of life or property damage results from an accident involving a boiler, pressure vessel or pressure piping system. (Please Print).

Contact Information	
Name of owner/person in charge:	
Chief Inspector/Management Representative (if applicable)	
Name:	
Mailing address:	
Telephone Number:	
Site Contact:	
Name:	
Synopsis of Accident	
Name and address of plant:	
Specific location of accident:	
Date of accident:	



Name of Victims (If possible, please describe injuries or cause of death.)

Damage to Property

(list all pressure equipment involved including title description of items, "A" Number, model number, CRN, service, description, severity of damage, etc.)

Description of Accident

Brief plant description, chronological sequence of events; clear understanding of what happened; root cause; preventative measures taken.

(Sequence of event before, during and after the event).

Supporting Material

Please list all appropriate drawings, sketches, photographs signed statements, Engineer Reports, Root Cause Analysis, etc., that you have included with this report.





Edmonton, AB T6N 0A4

Notification The following relevant authorities have been notified	
Probable Cause of Accident List major contributing causes in order of their importance.	
Actions and Preventative Measure Taken by Owner Steps to prevent occurrences of similar accidents.	
Accident Notification Details	
Reported to ABSA by:	
Name of ABSA Contact:	
Date and Time of Notification:	
When completed, this form should be sent to Administrator (Chief Inspector) ABSA, the pressure equipment safety authority 9410 20th Avenue	

Page 4 of 4



ELECTRICAL INCIDENT REPORT FORM

LOCAL	FILE NUMBER	
DATE		

	Human Fatality	Yes No	Human Inj	ury	Yes No	Animal	l Fatality		Yes No
	Date of Accident			Tim	ne of Day				
	Exact Location of Acciden	t							
				LSD	Section	Township	Range	9	West of
DETAILS	Name of Person Injured of	or Involved		Occupation		Age	9	Phone No.	
	Address							Postal Code	è
	Description of Injury (if a	ny)							
OF	Employer							Phone No.	
	Address							Postal Code	2
	Description of Accident (s	tate facts only)							
ACCIDENT									
		quipment Involved in Accid	lent (including po	ower lines)					
ELECTRICAL EQUIPMENT	-							Voltage (to	gnd. or ∅-∅)
INVOLVED	Owner of Equipment				Operator of Equipm	nent (if differe	ent from own	er)	
	-	pment Involved in Accident	i .						
OTHER	License No. of Equipment	(if applicable)		Mai	ke and/or Type of E	Equipment (if a			
EQUIPMENT	Owner of Equipment							Phone No.	
INVOLVED	Address							Postal Code	2
	Operator of Equipment							Phone No.	
	Address							Postal Code	ž
Reported By		Firm Name			Location			Phone No.	
ported by		Humo			Location				

SUBMIT COPIES TO:

Technical Administrator for the Electrical Discipline
16th Floor, 10155 – 102 Street, Edmonton, Alberta T5J 4L4

Email: safety.services@gov.ab.ca Fax: 780-427-8686 Phone: 1-866-421-6929

TO REPORT AN ALBERTA WILDFIRE CALL: 310-FIRE (3473) NOTE: For facility / operation site within an urban / community boundary, call 911. For facility / operation / site outside an urban / community boundary, call 310-FIRE (3473). Date (YY/MM/DD): Caller's Name: Recorder's Name: Caller's Contact Number: Recorder's Contact Number: Caller's Location: Time Call Received: Time Fire First Observed: (HH:MM – 24 Hr Local Clock) (HH:MM - 24 Hr Local Clock) Company: Address: CALLER In area because: □ Local Resident: ☐ Recreation ☐ Working ☐ Other (Describe): **LOCATION OF** LSD: Section: Township: Range: W M **FIRE** Other Description (GPS): ☐ Rate of spread is: ☐ Fire is burning in the: ☐ Ground: ☐ Not Moving: ☐ Bush (probe-timber type?): ☐ Moderate (less than normal walk): ☐ Agricultural Land (stubble, windrows, ☐ Fast (more than normal walk): etc.): ☐ Other: ON SITE **INFORMATION** ☐ Any people at the fire? ☐ Yes □ No ☐ Don't Know ☐ Yes ☐ Is property threatened? □ No ☐ Don't Know □ Is road access available? ☐ Yes □ No ☐ Don't Know ☐ Is water readily available? ☐ Yes □ No ☐ Don't Know Other observations: (Lightning, recreation, vehicles, children in area) Unable to see fire, only smoke is visible Colour: Column: SMOKE ☐ Light Grey: ☐ Intermittent: INFORMATION ☐ Medium Grev: ☐ Scattered: □ Dark Grev: ☐ Liaht: □ Black: ☐ Heavv: FPD Contacts: (____) ___-__(DUTY ROOM) Fire Centre FPD Industry Liaison: Contact Number: (SIGNATURE: NAME:

B.C. Minor Incident Notification Report



FORM A MINOR INCIDENT NOTIFICATION FORM

Physical Address: 6534 Airport Road, Fort St. John, B.C. V1J 4M6 Mailing Address: Bag 2, Fort St. John, B.C. V1J 2B0 Phone: (250) 794-5200 emp@bc-er.ca

This form is to be used for incidents which do not meet BCER Level 1, 2, or 3 Classification

Minor incidents must be reported to the Regulator within **24-hour**s through the Regulator's <u>Online Minor Incident Reporting System</u>, operated through KERMIT.

MISCELLANEOUS II	NFORMATION		Α
Risk Score: (attach risk matrix)	DGIR#:		
Incident Date (YYYY-MM-DD):	Incident Time (24-hour	r clock):	ST
INFORMATION OF PERSON	REPORTING INCIDENT		В
Permit Holder Name:	Reported by (name):		
Phone Number:	Alternate Number:		
Email:	Fax Number:		
INCIDENT DE	TAILS		С
SITE TY	DE		D
	ly one type		U
☐ Well (Active) ☐ Well (Abandoned/		☐ Remote Sump	
☐ Battery/Plant/Facility ☐ Tank Farm/Storage	· · · · · · · · · · · · · · · · · · ·	☐ Pipeline	
☐ Riser (Pipeline) ☐ Well (Drilling & Co			
☐ Road or Road Structure Name:	Location on road:		
☐ Other (specify):			

Updated: 08-September-2017 Effective: 01-October-2017

Page 1 of 4

INCIDENT TYPE									Е		
Check all that apply											
☐ Spill (Gas, liquid, solid) If yes to leak or spill, contact EMCR ☐ Fire/Explosion ☐ Drilling Kick											
☐ Security (theft, threat, sab	otage	, terrorism	1)	□ Ind	uced Seis	micity		□ We	ell Bore Comr	munication	
☐ Pipeline Boring				□ Vel	nicle			□Eq	quipment/Stru	ctural Damaç	ge
☐ Other (specify):							U.				
			A	CTIVIT	Υ						F
Check all that apply											
☐ Construction (road, lease	, pipeli	ne, facility	/)		□ Drillino	J/Explorat	ion		☐ Waste Ma	anagement	
☐ Processing (natural gas, p	petrole	um liquids	s, other)		□ Well F				□ Servicing		
☐ Repair						(emerge	ncy)		□ Well Test	ing	
☐ Pressure Testing					☐ Transp	ortation					
☐ Other (specify):											
		CON	NSEQUENCE							N/A □	G
			Check all		•						
☐ Worker Safety (injuries)				ernment,			ss of and/ iction, wor		nage to equipi page)	ment or infra	structure,
☐ Other (specify):											
				ASSETS	3						Н
GEOPHYSICAL PROGRA	AM (A	UTM loc	cation must b	e filled	out in t	he Locat	tion Sect	tion)			
Geophysical #:					Program	Name:					
Client Name:				l l							
WELL											
Well Authorization #											
Location of well: NTS		<u>-</u>	-	l	-	-	or_				
			, SEC						W6M		
FACILITY			,				<u> </u>				
Facility #											
Location of facility:	NTS		<u> </u>	-	<u> </u>	-		or			
	DLS		, SEC		. TWP		. RGE		W6M		
	220	1	, 020				,				

Updated: 08-September-2017 Effective: 01-October-2017

PROJECT (PIPELINES)	(A UTM loca	tion must be fil	led out i	n the L	ocation	Section)				
Projection Location:	NTS From			-				_		
	NTS To		_	-	1	_	_			
								-		
	DLS From		, SEC		_, TWP		_, RGE _	W6M		
	DLS To		, SEC		_, TWP		_, RGE _	W6M		
Project #:					ne Segr					
Pipeline Installation ID#				Install	ation Ty	/pe:				
OTHER LOCATION Any asset that does not a (A UTM location must be				sump, l	oorrow p	oit, etc.				
Location Type:				Locat	ion Des	cription:				
LOCATION										
Location of asset: NTS	<u>-</u> _	- 1	1		-	or				
	DLS	, SEC		, TWP _		, RGE		_W6M		
UTM (NAD 83 Zone):		ļ								
GPS: Latitude:		Longitude:								
		AREA I	NFORM	ATION						- 1
Land Type: □ Private Land	☐ Crown Lan	nd		Field N	Name:					
Access: □ ATV	☐ Helicopte	r 🗆 Four-wh	neel drive	•	□ Two	-wheel drive	e 🗆 Unkno	wn		
Name of road the asset is lo	ocated on:									
Km where the incident occu				1						
Distance to nearest residen	ce/public facili	<u> </u>			st City/To	own/Public (Camp:			
			CAUSE							J
☐ Third Party		☐ Manufacturing	k all that a	ірріу		☐ Corrosio	on (internal	. external)		
☐ Employee (procedural, b	ehavioral)	□ Natural (weat	-	, fire)		☐ Failure system)		· · · · · · · · · · · · · · · · · · ·	eq	luipment,
☐ Geological				□ Over	Pressuri	ng Equipme	ent			
☐ Unknown at this time. Ex	plain:									
☐ Other Factors (specify):										
D 3 0	P 1 (*	CAUSE/RE		ACTIO	NS					K
Describe the cause and re	emedidi actio	nis in more detai	I.							

Updated: 08-September-2017 Effective: 01-October-2017

	We	ather							L
Weather Conditions	□ clear	□ cloudy		the	r (specify):				
Wind Direction From:	□N □NE	□NW			□SE	□S	□SW		W
Wind Strength:	□ calm	☐ moderate			□ strong		☐ gusty		
Temperature:	°C								
Comments:									
	NOTIF	ICATION							М
What government agencies has the permit ho	lder notified:								
□ EMCR	☐ Ministry of Climate Change	f Environment Strategy	&		Ministry of	Transportat	ion and Tra	nsit	
☐ Public Works	☐ WorkSafeBC				Local Heal	th Authority			
☐ Regional/Municipal Authority	□ RCMP			□ Op		of Forests, Rural Devel		latural	Resource
☐ Canada Energy Regulator ☐ Other (specify):									
II	NFORMATION I	OR SPILLS ON	ILY	,					N
Is spill off lease? ☐ Yes ☐ No									
Spill Material Type:									
☐ Corrosive ☐ Emulsion (oil	, gas, water)	☐ Liquid I	Hyd	roca	arbon (crud	e, oil, diesel	, fuel)		
	•	arbon Dioxide, Inc			es)		Non-Toxic I		
☐ Saltwater ☐ Sour Natural	Gas	☐ Sour Li					Sweet Natu		i
☐ Toxic Gas ☐ Toxic Liquid Amount Spilled:		☐ Fresh \			or □ litro		Other (spec	ettic):	
Does Material contain any H₂S? ☐ Yes ☐ No	N □ Unknown	<u> </u>	<u> </u>	11. (
If yes, how much? ppm	O LI OTIKITOWIT								
Has spill been cleaned up? ☐ Yes ☐ No	□ N/A								
Date of Clean Up/Proposed Clean Up:		(mmm c	ld, y	/ууу	v) if applicat	ole			
Estimated Cost of Clean Up: \$					if app	licable			
									0
PLEASE NOTE: "All incidents involving a pipeline must submit a Form D: Permit Holder Post Incident Report Form within 60 days by email to EMP@bc-er.ca . A Permit Holder Post Incident Report Form may be required to be submitted for other minor incidents upon request by a Commission employee."									
The form can be found on the Regulator's	website.								
Permit Holder Post Incident Report Requi	red: ☐ Yes ☐	No							

Updated: 08-September-2017 Effective: 01-October-2017

Page 4 of 4



FORM C EMERGENCY INCIDENT FORM

British Columbia Energy Regulator 6534 Airport Road Fort St. John BC V1J 4M6 Phone: (250) 794-5200 emp@bc-er.ca

This in an internal Commission document provided to Industry for reference purposes only.

This document outlines the information that will be requested by Commission emergency management staff following any Level 1, 2 or 3 incident, as defined in the Emergency Management Matrix available on the Regulator's website.

Updated: 01-Nov-2017

Effective: 01-Dec-2017 Page 1 of 8



FORM C EMERGENCY INCIDENT FORM

British Columbia Energy Regulator 6534 Airport Road Fort St. John BC V1J 4M6 Phone: (250) 794-5200 emp@bc-er.ca

This form is to be used for emergencies which meet BCER Level 1, 2, or 3 Classification.

The emergency must be reported to the Regulator within 1 hour of the incident.

British Columbia Energy Regulator 24-hour Emergency Number: 1-250-794-5200 EMCR 24-hour Emergency Number: 1-800-663-3456

MISCELLANEOUS INFORMATION								
DGIR#	Ledger Number:			Kermit Number:				
Incident Date (YYYY-MM-DD):			Incident Time ((24-hour clock):				
,			,	(□ PST □ MST			
Received Date (YYYY-MM-DD):			Received Time	e (24-hour clock):				
					□ PST □ MST			
INI	FORMATION OF PERSON RE	EPOR	TING INCIDE	ENT TO BCER				
Permit Holder Name:		Rep	orted by (name	e):				
Phone Number:		Alter	nate Number:					
Email:				Fax Number:				
	INCIDENT	T DET	AILS					

Updated: 01-Nov-2017 Effective: 01-Dec-2017

Page 2 of 8

LEVEL OF EMERGENCY										
Risk Score: (attach risk matrix)	□ Level 1 □	Level 2	□ Lev	rel 3						
☐ Informed company they must contact the BCER to downgrade or stand down the level.										
	SITE TYPE (Select one only)									
☐ Well (Active)	□ Well (Abandoned	l/Suspended))	□ Remote	Sump					
☐ Well (Drilling & Completions): Rig Nam	ie:									
☐ Battery/Plant/Facility	☐ Tank Farm/Stora	ge		☐ Pipeline						
☐ Riser (Pipeline)										
☐ Road or Road Structure: Name:	•		Location	on road:						
☐ Other – Specify:										
INCIDENT TYPE (check all that apply)										
☐ Spill (releases and discharges)	☐ Fire/Explosion				☐ Drilling Kick					
☐ Worker Injury	☐ Security (theft, three	eat, sabotage	e, terrorisn	n)	☐ Induced Seismicity					
☐ Well Bore Communication	Il Bore Communication ☐ Pipeline Boring									
☐ Equipment/Structural Damage										
☐ Other – Specify:										
	ACTIVITY (check	call that app	oly)							
☐ Construction (road, lease, pipeline, faci	lity)	☐ Drilling/l	Exploratio	n 🗆	Waste Management					
☐ Processing (natural gas, petroleum liqu	ids, other)	□ Well Fracturing □] Servicing					
☐ Repair		☐ Flaring (emergency) ☐			Well Testing					
☐ Pressure testing		☐ Transportation								
☐ Other – Specify:				•						
CONSEQUENC	E OR IMPACTS (check	k all that app	oly. If non	e, leave bla	nk)					
☐ Worker Safety (fatality, injuries) ☐ Property (government, public, private) ☐ Economic (loss of and/or damage or infrastructure, loss of processing stoppage)					•					
☐ Other – Specify:										
	AREA INFO	RMATION								
Land Type: ☐ Private Land ☐ Cro	own Land		Field	Name:						
Area Type: ☐ Forest	☐ Muskeg	☐ Farmlar	nd	☐ Resident	ial Dther					

Updated: 01-Nov-2017 Effective: 01-Dec-2017

Access:	□ ATV	☐ Helio	copter	☐ Four-whee	el drive	□Tw	vo-wheel drive	e □ Unl	known
Name of road the	e asset is lo	ocated on:							
Km where the inc	cident occu	rred:							
Distance to nearest residence/public facility:									
Nearest City/Town/Open Camp:									
CAUSE (check all that apply)									
☐ Third Party			□ Mar	☐ Manufacturing Defect			☐ Corrosion (internal, external)		
☐ Employee behavioural)	(negligen	ce, procedur	ral, □ Nat	□ Natural (weather, flood, fire) □				e (materials, system)	mechanical,
☐ Geological			□ Ove	☐ Over Pressuring Equipment					
☐ Unknown at this time. Explain:									
□ Other Factors – Specify:									
CAUSE/REMEDIAL ACTIONS									
Describe the cau	se and re n	iediai actions	iii more dea	311.					
WEATHER									
Weather Condition	ons:	s:		ıdy		□ other			
Wind Direction: F	rom:	N	NE	NW E	SE	,	S SW	v W	
Wind Strength		□ calm		☐ moderate)	□ stro	ng	☐ gusty	
Temperature: °C									
Comments:									
PUBLIC INJURIES/MEDICAL EMERGENCIES									
☐ First Aid ☐ Hospitalization ☐ Fatality									
Other:									

Updated: 01-Nov-2017 Effective: 01-Dec-2017

NOTIFICATION										
What government agencies has the permit holder notified?										
□ EMCR	☐ Ministry of ☐ Change Strategy	Environment & Climate	☐ Ministry of Transportation and Transit							
□ Public Works	☐ WorkSafe BC		☐ Local Health Authority							
☐ Regional/Municipal Authority	□RCMP		☐ Ministry of Forest							
☐ Canada Energy Regulator		☐ Other – Specify								
Permit Holder instructed to call:										
MATERIAL INFORMATION										
Is spill off lease? ☐ Yes ☐ No										
Spill Material Type: ☐ Corrosive Acid ☐ Emulsion (oil, gas, water)										
□ Fresh Water □ Liquid Hydrogen (crude, oil diesel, fuel) □ Methanol □ Non-Toxic Gases (Nitrogen, Carbon Dioxide, Inert Gases) □ Non-Toxic Liquids □ Saltwater □ Sour Natural Gas □ Sour Liquid (H₂S) □ Sweet Natural Gas □ Toxic Gas □ Toxic Liquid □ Other										
GAS										
Does material contain any H₂S? ☐ Yes ☐ No ☐ Unknown ☐ N/A										
If yes, how much? ppm										
Gas Rate: 10 ³ m ³ d or	10 ³ m ³ d or mmcfd		10 ³ m ³ or mmscf							
Can you hear/smell gas? ☐ Yes ☐ No		Propane/NGLs/LPSs'	Propane/NGLs/LPSs? □ Yes □ No							
LIQUID										
Does material contain any H₂S (oil, water, condensate)? ☐ Yes ☐ No ☐ Unknown ☐ N/A										
If yes, how much? ppm										
Liquid Rate: m³d or E	BPD L	iquid Volume:	m³ or bbls or litres							
Other (describe):										
Has spill been cleaned up? ☐ Yes ☐ No ☐ N/A										
Date of Clean Up/Proposed Clean-Up:	Date of Clean Up/Proposed Clean-Up: (mmm dd, yyyy)									
Estimated Cost of Clean Up. \$										

Updated: 01-Nov-2017 Effective: 01-Dec-2017

SAFETY ISSUES								
Emergency Planning Zone Size:	Emergency Planning Zone Size: km							
Are responders in danger? □ Unknown □ No □ Yes								
Are public in danger? □ Unknown □ No □] Yes							
First Nations Band Affected: \square No \square Yes	Name of Band:							
Public safety actions taken:								
☐ Evacuation ☐ Sheltering (Instruct Perm	nit holder to contact	Local Authority)						
☐ Roadblocks ☐ Do you need, or do you Alaska Highway or Public Works from Development Resource roads, or Ministr	have a Closure Orde 82 north on Alaska	er? (Instruct Permit holder to conta highway for any public roads and	-					
☐ Do you need, or do you have a NOTAM?	?							
☐ Have you conducted a Transient Survey	?							
☐ Any Media Releases must be done in co	njunction with BCER							
☐ Have you or do you need to dispatch a public are involved)	Mobile Air Quality Mo	nitoring (Instruct Permit holder to co	ontact Health Authority if					
☐ Have you or will you need to Ignite?								
☐ Have you notified all tenure holders? No	on-resident landowner	s/Trapper/Guide-Outfitters/Range Allot	tments/Grazing Lease					
	ASS	ETS						
GEOPHYSICAL PROGRAM (A UTM locat	ion is required)							
Geophysical #:		Program Name:						
Client Name:								
UTM (NAD 83):	m easting	m northing						
(Place on the program that incident happened REQUIRED)								
SITE (On lease equipment, wells, or facilities). Fill information in for asset with incident.								
Location of asset:	NTS	or						
	DLS, SEC _	, TWP, RGE W	6M					
BCER Site #:	Site Detail (on lease	equipment):						
WELL								
Well Authorization #:		Status of well:						
Depth/Perforation:	m KB	Wellbore Fluid Density:	kg/m³					

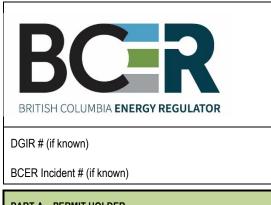
Updated: 01-Nov-2017 Effective: 01-Dec-2017

Pit Gain	m	Kill Fluid Density	kg/m³
*SIDPP/SITP	kPa	*SICP	kPa
*RSPP	kPa	Equipment:	
Operating Pressure:	kPa	Shut in Pressure:	kPa
*SIDPP – Shut in Drill Pipe Pressure / SITF	P – Shut in Tubing Pressure / SICP – Shut in Co	asing Pressure / RSPP – Reduced Speed Pump Pre	ssure
FACILITIES			
BCER Facility Code #:		Equipment on Site:	
Design Capacity:		Actual Throughput:	
Operating Pressure:		Operating Temperature:	
PROJECT (PIPELINES) (A UT	M location is required)		
Project Location:	NTS To	/ / SEC, TWP, RGE	or
		EC, TWP, RGE	
UTM (NAD 83): (Place on Pipeline where incide	m easting	m northing	
Project #		Pipeline Segment #	
Product:		Line Length between valves: km	
ID	mm	OD m	m
Operating Pressure	kPa	Maximum Operating Pressure	kPa
ESD or Block Valve Closure?	☐ Yes ☐ No ☐ Unknown		

Updated: 01-Nov-2017 Effective: 01-Dec-2017

OTHER LOCATION (Any asset that does not apply to above such as a road, remote sump, borrow pit, etc.) (A UTM location must be filled out in the Location Section).							
Location Type:		Location Description:					
Location of asset:		/, RGE					
UTM (NAD 83):	m easting		m northing REQUIRED				
GPS: Latitude:		Longitude:					

Updated: 01-Nov-2017 Effective: 01-Dec-2017



FORM D PERMIT HOLDER POST INCIDENT REPORT

Must be submitted by the permit holder within 60 days for:

- 1. Level 1, 2 or 3 emergency incident*: complete Part A-P; or
- 2. Any pipeline incident, including a minor incident: complete Part A-U

*Note: in addition to the above a permit holder may be required to complete and submit a "Form D" when requested by a representative of the Commission.

This report and accompanying documentation must be emailed electronically to EMP@bc-er.ca

(,				Cicoti Gilican	y to Eiiii @bo criou		
PART A – PERMIT HOLDER								
Permit holder Name	der Name							
Contractor(s) Names(s)								
PART B – DATE, TIME AND	OIL AND	GAS ACTIVITY ID	ENTIFICATIO	N OF INCIDENT				
Incident Date (YYYY/MM/DD))			Incident Time F	Hour (24-hr system & time zone	9)		
Well Authorization, Facility Id	d., Pipeline	Project # and Segm	ent#, Road#	and Segment #,	Other (Describe)			
PART C—SPILLS AND REI	LEASES (Check all that apply	')					
Type of Product	Volume	Release (m³)	Volume Red	covered (m³)	Type of Product	Volume Released (m³)	Volume Recovered (m³)	
☐ Natural Gas (sweet)					☐ Produced Water			
☐ Natural Gas (sour)					☐ Fresh Water			
□ Oil					☐ HVP fluids (ethane, propane, butane)			
☐ Condensate					☐ LVP fluids (pentane plus)			
☐ Emulsion								
☐ Other (specify product an	ıd CAS# oı	r attach MSDS)						
☐ Other (specify product an	ıd CAS# oı	r attach MSDS)						
☐ Other (specify product and CAS# or attach MSDS)								
Was there a fire? ☐ Yes ☐ No Was there an explosion? ☐ Yes ☐ No								
Was anyone directly exposed to the spill product? ☐ Yes ☐ No Was medical treatment required? ☐ Yes ☐ No								
For any spills where clean-up can not be completed within 30 days, an initial report / clean-up plan must be submitted within 30 days, with updates every 30 days following until clean-up has been completed.								
Has the spill cleanup been co	ompleted?	☐ Yes (attach rele	vant reports) [☐ No (Interim Re	eport or initial clean-up plan atta	ached)		

Updated: 24-April-2021 Page **1** of **6**

PART D INJURY OR FATALITY? Yes	□ No				
If yes, describe:					
PART E NARRATIVE OF INCIDENT	Attach any addition	nal information tha	at may supplement	g conditions and events leading up the narrative such as 1) drawing of g, servicing, etc.). Attach additiona	f the incidentsite; 2)
PART F INCIDENT RESPONSE			1		
Was the Emergency Response Plan Activated	J? □ Yes	□ No	Was an Incident If Yes, attach a	Action Plan Created? ☐ Yes copy.	□ No
Was an Incident Command System Organiza	tion Chart Developed?	☐ Yes	□ No	If Yes, attach a copy	
If the Emergency Response Plan was Activate	ed, describe how the Er	mergency Response	e Plan was impleme	nted and outline applicable steps take	en to:
Provide for the safety and health of all respoProtect public health and safetyProtect the environment	nders		Protect govern Protect propert	ment infrastructure ty	

Updated: 24-April-2021 Page **2** of **6**

PART G COMPONENT FAILURE / MALFUNCTION							
Component	Manufacturer	Model # or Material and Grade					
Manufactured Date:	Installed Date:	Last Certification Date:					
Has a third party analysis of the equipment or pipe failure been completed? (Required for Level 2 an 3 Emergencies)							
PART H REPAIR DESCRIPTION Provide a description	cription of all necessary repairs as a result of the incident and	include the date of return to service					

Updated: 24-April-2021 Page **4** of **6**

PART I – INCIDENT CAUSES See the Emergency Management Manual, Appendix E: Post Incident Reports, for cause definitions. A full root cause analysis is required for all Level 2 and 3 Emergencies.					
IMMEDIATE CAUSE (Check all that apply)	AUSE nat apply)				
☐ Defect and Deterioration	☐ Engineering and Planning	☐ Maintenance			
☐ Corrosion and Cracking ☐ Internal ☐ External	☐ Procurement	☐ Tools and Equipment			
☐ Equipment Failure	☐ Standards and Procedures	☐ Communication			
☐ Incorrect Operation	☐ Supervision and Training	☐ Human Factors			
☐ External Interference	☐ Natural and Environmental Factors				
☐ Employee/Contractor ☐ Third Party					
☐ Natural Force Damage	☐ Unknown Causes (specify)				
☐ Construction	☐ Other Causes (specify)				
☐ Other Causes (specify)					
Provide a justification for the causes selected and any additional details or explanation that	will help the Commission understand the basic	cause(s) of this incident.			
Attachment(s) □					

Updated: 24-April-2021 Page 5 of 6

PART J PREVENTIVE AND CORRECTIVE ACTIONS Outline the changes made and the steps taken and to be taken to Include any relevant information outlining why the preventive action information.	o prevent a similar inciden ons are appropriate. See	nt. This will address the basic ca the Emergency Management M	ouses, as applicable. Identify a schedule for completion. Ianual, Appendix E: Post Incident Reports, for more
PART K NAME OF PERSON CONDUCTING A COMPANY INCI	DENT INVESTIGATION		
Name and Title		Address	
Phone Number		Email	
PART L NAME AND TITLE OF COMPANY REPRESENTATIVE	FILING REPORT		
Name	VIVI	Title	
Signature		Company	
Address			
Date (YYYY/MM/DD)	Phone Number ()		Email
	-		

Updated: 24-April-2021 Page 6 of 6

FRM - 1103-11 (2016-07-19)



505 Sixth Street, Suite 200, New Westminster, BC V3L 0E1

Toll free: 1-866-566-7233 Website: www.safetyauthority.ca

Incident Reporting Form

Note: The information on this form is collected to administer the provisions of the BC Safety Standards Act and section 26 of the Freedom of Information and Protection of Privacy Act. If you have questions about the collection, use, or disclosure of this information, contact the Records, Information & Privacy Analyst at 1-866-566-7233.

Instructions for Use	
For incidents involving the following technologies:	
☐ Amusement Rides	☐ Passenger Ropeways
☐ Boilers, Pressure Vessels, Refrigeration	☐ Elevating Devices
□ Electrical	□ Gas
Note: For all Amusement Rides and Passenger Ropeways incidents (Le	vel I, II, and III):
 Call 1-866-566-7233 to report the incident Complete form below: save the form to your computer upload the form as an attachment to an email send to incidents@safetyauthority.ca You may also save a copy for your records. 	
EMERGENCY RESPONSE	
For an incident requiring IMMEDIATE er (ambulance, fire, and/or police	• • •
LEVEL I & II INCIDENTS	
An incident involving serious injuries or damages (reported immediately to the Technical	
Telephone: 1-866-566-7	7233
LEVEL III INCIDENTS	
An incident involving minor injuries/damages or no injumust be reported within 24-hours to the Te	
Email: incidents@safetyauth	ority.ca
or	
Telephone: 1-866-566-7	233
Technical Safety BC is working towards going paperless! Participal	te by signing up for email correspondence.

Page 1 of 2



505 Sixth Street, Suite 200, New Westminster, BC V3L 0E1

Toll free: 1-866-566-7233 Website: www.safetyauthority.ca

Incident Reporting Form

Note: The information on this form is collected to administer the provisions of the BC Safety Standards Act and section 26 of the Freedom of Information and Protection of Privacy Act. If you have questions about the collection, use, or disclosure of this information, contact the Records, Information & Privacy Analyst at 1-866-566-7233.

Date Reported:	Time Reported:
DETAILS	
Date Incident Occurred:	Time Incident Occurred:
Address/Location of Incident:	
Type of Premises:	If other, please specify:
Technology Involved: Incident Description:	Incident Cause:
Description of Injuries	Description of Damages:
Number of People Injured:	Equipment/Property Damage: ☐ Yes ☐ No
Number of Fatalities:	Product/Equipment still in service: \square Yes \square No
Hospitalization Required: ☐ Yes ☐ No	
Name of Contractor / FSR:	Unit Number:
Contractor / FSR Phone Number:	Permit Number:
Notifier's Information: Name:	By submitting this form, I give consent to Technical Safety BC to verify and disclose the information provided on this form for the purposes consistent with the administration of the Safety Standards Act.
Organization:	
Contact Phone Number:	
Technical Safety BC is working towards going paperless! Par FRM – 1103-11 (2016-07-19) Public/Stakeholder Incident Reporting Form	rticipate by signing up for email correspondence.



For all users: Please refer to the Wildfire Act and Wildfire Regulation for statutory responsibilities, obligations and requirements.

Form

Completed:

Date

INFORMATION ABOUT THE ACTIVITY

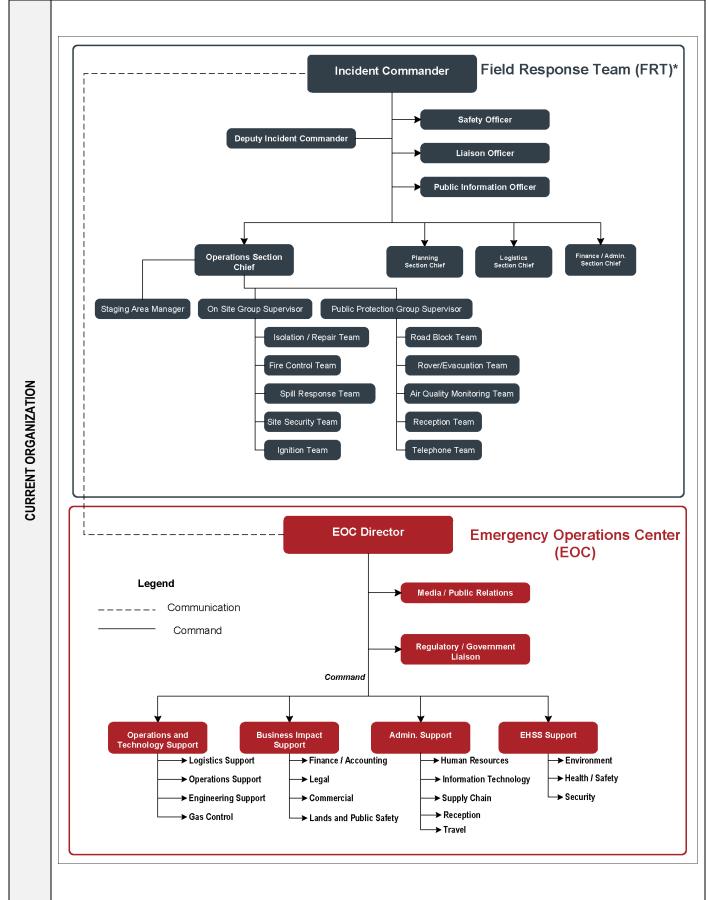
Worksite Details (manne	ed facilities only e.g	g. staff on s	ite > 4 hrs/d	ay)				
Project Name					Project N	lumber		
Physical location of activity					Type of Activity			
(helpful if map attached, or attach addit	ional information as neces	ssary)			•	,		
			Specify: Format for Lat & Long: Degrees[space] Minutes[.]Decimal (e.g. 125 15.20)					
						t & Long: Degrees[space	ej Minutes[.jD	
					Lat			Long
					UDO ID (L	JDO information to	be compl	eted by BCWS)
Duration of Activities (enter of	date(s) for appropriat	te period only	y)		ı			
Temporary	Start				End			
Intermittent	Dates				Perm	anent	Start Dat	е
Company Contact Infor	mation (INCLUDII	NG sub-cont	ractors - add	additional pages	if neces	sary)		
(For more than one temporary							ovided)	
24 hr Company Emergency L	_ine(s) #							
Company Name			1			<u>'</u>		
Contact			Phone			E-mail		
Alternate 24 hr Contact Nam	e and Phone(s)							
Company Name			I					
Contact		Phone				E-mail		
Other Key Emergency Conta	ct(s) # - List contract	ctors and sub	o-contractors	(attach additiona	al pages	as necessary)		
Company Name						Phone		
Contact		Phone				E-mail		
List of industrial activit	ies (OPTIONAL to d	complete – a	s specified in	the Wildfire Red	ulation)			
☐ Any high-risk activity as def			о оросинов ит	and rename reag	juiutionij			
Operating equipment or ma			anagement				in relation	on to activities other than
during:				forest manag	ement u	uring.		
				☐ debris piling	g			
☐ road construction, road mai	ntenance and road o	deactivation		□ road constr	ruction, re	oad maintenance	e or road	deactivation
☐ timber harvesting, including	sorting logs			☐ rock drilling	l			
☐ mechanical modification of	forest debris and del	bris piling		☐ mining operations				
☐ silviculture treatments				☐ railway operations				
☐ portable wood chipping, mil	ling, processing or m	nanufacturing]	☐ utility transmission operations				
□ other (specify)				□ portable wood chipping, milling, processing or manufacturing			r manufacturing	
				ther (specify)				
Fire Emergency Contact	t Information							
Forest Fire Reporting: 1-8		5555 on mo	ost cellular n	etworks				
Fire Centre Contact Info					aa Man			
Fire Centre		Form to:	ile is local to	your activities) o	ice map.			Office Phone
Coastal		BCWS.COFCDispatch@gov.bc.ca						250-951-4222
Southeast			ch@gov.bc.ca					250-365-4040
Kamloops		(FCDispatch						250-554-7701
Cariboo			atch@gov.bc.	ca				250-989-2600
Prince George			ch@gov.bc.ca					250-565-6126
Northwest			ch@gov.bc.c					250-847-6633
BC Wildfire Management Bran	ch Website: http://bc	cwildfire.ca						

11.3 ICS Forms

ICS 201 - Incident Briefing

	Incident:		
IILS	Date:		
DETAILS	Time (0-2400 hrs):		Time Zone:
_	Prepared by (Name and Position):	Signature:	
MAP SKETCH			
SITUATION SUMMARY AND SAFETY BRIEFING			

CURRENT AND PLANNED OBJECTIVES	Time	Astions
	Time:	Actions:
SOI		
TACTICS		
AND TACTICS		
GIES AND TACTICS		
RATEGIES AND TACTICS		
S, STRATEGIES AND TACTICS		
TIONS, STRATEGIES AND TACTICS		
ED ACTIONS, STRATEGIES AND TACTICS		
ANNED ACTIONS, STRATEGIES AND TACTICS		
ND PLANNED ACTIONS, STRATEGIES AND TACTICS		
ENT AND PLANNED ACTIONS, STRATEGIES AND TACTICS		
URRENT AND PLANNED ACTIONS, STRATEGIES AND TACTICS		
CURRENT AND PLANNED ACTIONS, STRATEGIES AND TACTICS		
CURRENT AND PLANNED ACTIONS, STRATEGIES AND TACTICS		



	RESOURCES ORDERED	RESOURCE NAME	ETA	ON SCENE (Yes/No)	LOCATION/ ASSIGNMENT
Κ					
MMA					
ns s:					
URCE					
RESOURCES SUMMARY					

ICS 202 - Incident Objectives

	Incident:					
	Date:					
LS	Time (0-2400 hrs):				Time Zone:	
DETAILS	Operational Period (Date/Time)	Date From:		Date To:		
D		Time From:	Lec	Time To:		
	Prepared by (Planning Section Chief):		Signature:			
	Approved by (Incident Commander):		Signature:			
GENERAL CONTROL OBJECTIVES FOR THE INCIDENT	(Include alternatives)					
WEATHER FORECAST						
GENERAL SAFETY MESSAGE						
ATTACHMENTS	☐ ICS 203 - Organization List☐ ICS 204 - Assignment List☐	□ Medical Plar □ ERP Map	i (ICS 206) □			DLOF 4 CT 4
					1	PAGE 1 OF 1

ICS 203 - Organization Assignment List

	Incident:										
	Date:										
DETAILS	Time (0-2400 hrs):				Time Zone:						
ET	Operational Period (Date/Time)	Date From:		Date To:							
		Time From:	Time To:								
	Prepared by (Planning Section Chie	ef):	Signature:								
ш	Incident Commander			Operations Section Chief							
PF	Deputy IC			a. Staging Area Manager							
INCIDENT COMMAND STAFF	Safety Officer			b. Public Protection Group Supervisor							
¥	Liaison Officer			Roadblock Team							
CO	Unified Commander(s)			Rover Evacuation Team							
DENT				Air Monitoring Team							
5				Reception Team							
=				Telephone Team							
	Agency/Organization	Representative									
ပ္သ			E	c. On-Site Group Supervisor							
Y TION			SEC	Fire Control Team							
AGENCY/ GANIZATI RESENTAT			SNOIL	Isolation Repair Team							
AGENCY/ ORGANIZATION REPRESENTATIVES			OPERATIONS SECTION	Spill Response Team							
			8	Site Security Team							
				Ignition Team							
	Planning Section Chief										
ING SECTION	Engineering			d. Additional Support							
) Jij	Human Resources										
ဋ	Legal										
Ź			_								
PLANNI				e. Additional Services							
<u> </u>											
	Logistics Costion Chief			Finance/Admin Coeffice Chief							
	Logistics Section Chief		8	Finance/Admin Section Chief Business Impact Support							
_			_ <u>წ</u>	Buomoco impuot cupport							
<u> </u>			SE								
.5											
တ္သ	b. Additional Services		_ ₹								
STIC			┨岁								
LOGISTICS SECTION			¥ N								
ĭ] 								
		PAGE 1 OF 1	EOC / FINANCE /ADMIN SECTION								
		PAGE 1 OF 1	ш		PAGE 1 OF 1						
					17.02 101 1						

ICS 204 - Assignment List

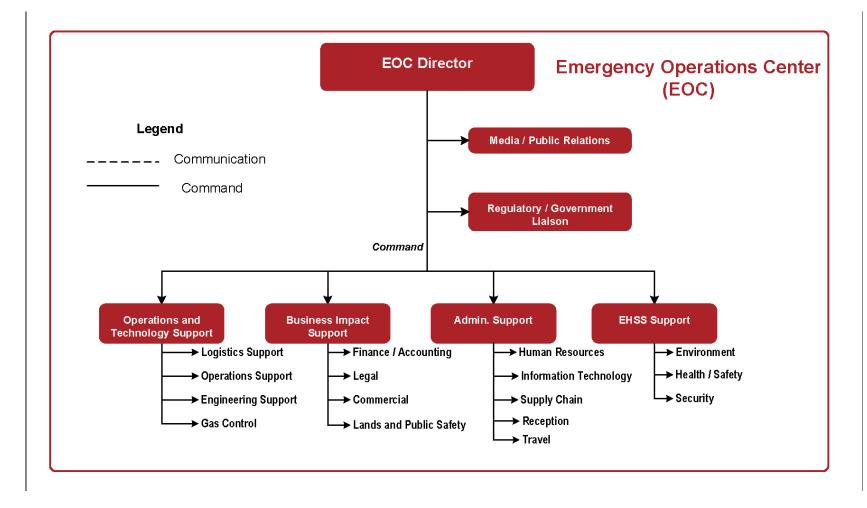
	Incident:							
	Operational Period (Date/	Time) Date F	rom:		Date	To:		
DETAILS	Prepared by (Operations S	Time F	rom:		Time Signature:	To: Date/Time		
DET	Prepared by (Operations s	Section Chiet):			Signature:	Date/Time		
	Approved by (Planning Se							
OPERATING PERSONNEL	Operations Section Ch				g Area Manager:			
OPE PER	Public Protection Grou	up Supervisor:		On-Site	e Group Supervisor:			
dol	Resource Identifier	Leader	No. of Person		Contact ell #, radio freq. etc.	Reporting Location and Supplie	, Special Equ es, Remarks	ipment
RESOURCES ASSIGNED TO THIS PERIOD								
H1 0.								
SSIGI								
ES A								
OURC								
RES								
Ø								
WORK ASSIGNMENTS								
WORK SIGNMEI								
AS								
Z								
CIAL								
SPECIAL INSTRUCTION								
NOIT	Function:	Frequencies:	System:	Chan:	Function:	Frequencies:	System:	Chan:
COMMUNICATION	Command				Logistics			
8	Tactical (Field Operations)				Air to Ground			
							PA	GE 1 OF 1

ICS 206 - Medical Plan

	Incident:									
	Date:									
S	Time (0-2400 hrs):								Time Zone:	
DETAILS	Operational Period	d (Date/Time)	Date F	From:			l			
D	Duran and har (Cafe	. Office	Time	From:		Time To		Date/Time		
	Prepared by (Safe				Signa					
	Approved by (Inci	dent Commander):			Signa	ature:		Date/Time		
	Medical A	Aid Stations		Location		Co (number o	ntact	anavl	Param Yes	edics No
- AID						(number o	n neque	ency)	res	
DICAL										
INCIDENT MEDICAL AID STATION										
CIDEN										
Ž										
	Ambulai	nce Service		Location			ntact	,	Level o	
NO						(number o	r freque	ency)	ALS	BLS
TATI										
TRANSPORTATION										
TRAN										
	Hospital	Address (lat/long if		el Time		ct (number or		elipad	Burn C	
	Name	helipad)	Air	Ground	fr	requency)	Yes	No	Yes	No
PITALS										
HOSPI										
Ŧ										
SPECIAL MEDICAL EMERGENCY PROCEDURES										

ICS 207 - Incident Organization Chart

	Incident:		
	Date:		
AILS	Time (0-2400 hrs):		Time Zone:
DETAILS	Operational Period (Date/Time)	Date From:	Date To:
	Dragged by (Alarea 9 Dag'ting)	Time From:	Time To:
	Prepared by (Name & Position):		Signature
ORGANIZATION CHART		Fire Control Team Spill Response Team Air Que Site Security Team	Safety Officer Liaison Officer Public Information Officer Logistics Section Chief Finance / Admin. Section Chief



Page:

ICS 208 - Safety Message / Plan

	Incident:					
DETAILS	Date:					
	Time (0-2400 hrs):				Time Zone:	
	Operational Period (Date/Time)	Date From:		Date To:		
		Time From:		Time To:		
	Prepared by (Site Safety Officer):		Signature:			
SAFETY MESSAGE/EXPANDED SAFETY MESSAGE, SAFETY PLAN, SITE SAFETY PLAN						
SAFETY PLAN	Site Safety Plan Required? Yes □ N	No □				
SAF	Approved Site Safety Plan(s) located	at:			_	
						PAGE 1 OF 1

ICS 209 - Incident Status Summary

	*Incident Name:				Incident No:					
DETAILS	*Report Versio Check one box on Initial Rpt# Update (if use	left):		nander(s) & Agency ganization	Incident Management Or	ganization	*Incide Date: Time:	ent Start Date/Time		
	Current Incident Size Involved (Use unit label – e.g. 'sq km'	' 'aita (blaak')	% Contained Completed	*Incident Definition	Incident Complexity	Level	*For Time Period From Date/Time: To Date/Time:			
	*Prepared by:	ICS	S Position:		Signature:		*Date/Time	·.		
JING										
& ROUT ATION	Approved by:	ICS	S Position:		Signature:		*Date/Time			
APPROVAL & ROUTING INFORMATION	*Date/Time Submitted:									
APPR	*Primary Location, Orga	nization, or Agend	cy Sent To:							
	*Province/Territory		*Co	unty, Regional/Rural Muni	cipality, Regional/Municipal District	*City				
INCIDENT LOCATION INFORMATION	Unit or Other		*In	cident Jurisdiction			ocation Owner han jurisdiction)	rship		
LOC	Longitude	Latitude	Da	tum		Legal Des	cription (twp, ra	nge, section)		
CIDENT	*Short location or area d	lescription (list all a	ffected areas or	a reference point)		*UTM Coo	rdinates			
Ž	Note any electronic geospatial data included or attached (indicate data format, content, and collection time information and labels)									
	*Significant events for th	ne time period rep	orted (summa	rize significant progress	made, evacuations, incident growth	, etc.)				
>	Primary materials or haz	ards involved (haz	zardous chemica	als, fuel types, infectious	agents, radiation, etc.)					
IMAR	Damage Assessment Inf (summarize damage and/or	restriction of use or	Structural	Summary	# Threatened (72 hrs)	# Da	maged	# Destroyed		
IT SUM	availability to residential or c natural resources, critical inf resources, etc.)		Single Re	sidences						
INCIDENT SUMMARY			Non-resid Commerc	ential ial Property						
			Other Min	or Structures						
			Other							
	*required when applicable							PAGE 1 OF 4		

	*Incident Name:			Incident No:		
DETAILS						
	*Public Status Summary	# This Reporting Period	Total # To Date	*Responder Status Summary	# This Reporting Period	Total # To Date
	Indicate number of Stak	eholders (public) be	low	Indicate number o	f responders below	
	Fatalities			Fatalities		
	With Injuries/Illness			With Injuries/Illness		
	Trapped/In Need of Rescue			Trapped/In Need of Rescue		
	Missing (note if estimated)			Missing (note if estimated)		
	Evacuated (note if estimated)			Evacuated (note if estimated)		
	Sheltering in Place (note if estimated)			Sheltering in Place (note if estimated)		
	In Reception Centres (note if estimated)			In Reception Centres (note if estimated)		
Z	Total # Stakeholders (Public) Affected			Total Responders Affected		
MATIC	Life, Safety, and Health Status/Threat R	Remarks		Life, Safety, and Health Threat	Mgmt.	Check if active
SR				No likely threat		
Ĕ				Potential Future Threat		
ZT.				Mass notifications in progress		
INCIDENT DECISION SUPPORT INFORMATION				Mass notifications completed		
				No evacuation(s) imminent Planning for evacuation		
S				Planning for shelter-in-place		
Sio	Weather Concerns (synopsis of current	and predicted weath	ner, discuss related	Evacuation(s) in progress		
<u> </u>	factors that may cause concern)			Shelter-in-Place in Progress		
I D				Area restriction in effect		
Ë						
믕						
Ž						
¥						
ᅙ						
ADDITIONA						
₹						
	Duning the side of Authority Date of all May		C			
	Project Incident Activity, Potential, Mov and influencing factors during the next	operational period a	or Spread and in 12-, 24-, 48-, a	nd 72-hour timeframes		
	12 hours					
	24-hours					
	48 hours					
	72 hours					
	Anticipated after 72 hours					
	Objectives (define planned end-state for	incident)				

*required when applicable PAGE 2 OF 4

	*Incident Name:	Incident No:								
DETAILS										
<u> </u>										
	CURRENT INCIDENT THREAT SUMMARY AND RISK INFORMATION IN 12-, 24 Summarize primary incident threats to life, property, communities and community st commercial facilities, natural and environmental resources, cultural resources, and Identify corresponding incident-related potential economic or cascading impacts. 12 hours	ability, residences, health care facilities, other critical infrastructure and key resources,								
	24-hours									
	48 hours									
	72 hours									
(par	Anticipated after 72 hours									
ontinı	Critical Resource Needs in 12-, 24-, 48-, and 72-hour timeframes and beyond the List resource category, kind, and/or type, and amount needed, in priority order:	to meet critical incident objectives.								
ON (C	12 hours									
MATIC	24-hours									
FOR	48 hours									
RT IN	72 hours									
IPPOI	Anticipated after 72 hours									
NCIDENT DECISION SUPPORT INFORMATION (continued)	Strategic discussion: explain in relation to overall strategy, constraints, and of 1) critical resource needs identified above, 2) the Incident Action Plan and management objectives, 3) anticipated results. Explain major problems and concerns such as operational challenges, incident mimpacts.	current available information to: nanagement problems, and social, political, economic, or environmental concerns or								
_	Planned Actions for Next Operational Period									
ADDITIONAL	Projected final incident size/area (Use Unit Label – e.g., "sq km")									
AD	Anticipated Incident Management Completion Date									
	Projected Significant Resource Demobilization Start Date									
	Estimated Incident Costs to Date									
	Projected Final Incident Cost Estimate									
	Remarks (or continuation of any blocks above – list block number in notation									

*required when applicable PAGE 3 OF 4

DETAILS	*Incident Name:												"	ncia	ent r	NO:								
	Agency or Organization	(sur	nmari	RCES ize res inel as	source	es b	y cat with	egor	ry, kir ource	nd, a on b	ind/o	r typ m ½	e; sho	ow #	of re	esour	ces	on to	p ½ (of bo	x, sh	ow #	Additional Personnel (not assigned to a resource)	Total Personnel (includes those associated with resources - e.g. aircraft or engines - and individual overhead)
MARY																								
L SUM																								
TMEN																								
OMMI																								
INCIDENT RESOURCE COMMITMENT SUMMARY																								
ESOU																								
ENT R																								
INCID																								
	Total Resources																							
	Additional cooperation	ng and	ı l	sting o	organ	nizat	tions	not	liste	ed ab	oove			I	l	I	I		I					

PAGE 4 OF 4

*required when applicable

ICS 211 - Check-In List

	Incident Nam	Incident Name: Incident Number (if assigned):			Check-In	Location										Start Date/Time Date:					
DETAILS						□ OSCP		□ICP	☐ Staging Area		□ EOC	☐ Helibase		□ Other			Time:				
	Prepared by	Name & Position)	:			II.								Signature							
			List Personnel OR List Reso	(overhead) by A ources by the Fo	Agency & Name – Illowing Format			LDW	Order Request Number	Date/Time Check-In	Leader's Name	Total Number of	Contact Information	Home Unit/ Base	Departure Point	Method of Travel	Incident	Other Qualifications	Sent to Resource Unit		
	P/T	AGENCY	CAT.	KIND	TYPE	ST/TF	Resource Name or ID #)	Number	Clieck-iii		Personnel	Illiormation	Dase		ITavei	Assignment	Qualifications	Offic		
_																					
nents																					
СОШП																					
ks or																					
remai																					
m for																					
of for																					
/erse																					
se re																					
n) NO																					
MATI																					
NFOR																					
K-N																					
CHECK-IN INFORMATION (use reverse of form for remarks or comments)																					
	Remarks or 0	Comments	·		1			•		'											
													Page:								
													-	_		_	_				

ICS 214 - Activity Log

	Incident:						
	Date:						
	Time (0-2400 hrs):		T	ime Zone:			
DETAILS	Operational Period (Date/Time)	Date From:	Date To:				
	Prepared by:	ICS Position:	Signature:				
	Name	ICS Position	Command Centre (OSCP, ICP, EOC)				
E							
PERSONNEL ASSIGNED							
SONNEI							
PER							
	Time	Мајог	Events				
(7)							
LOO.							
ΥII							
ACTIVITY LOG							

	Incident:			
	Date:			
DETAILS	Time (0-2400 hrs):			Time Zone:
DET	Operational Period (Date/Time)	Date From:	Date To:	
_		Time From:		
	Prepared by:	ICS Position:	Time To: Signature:	
	Time		Major Events	
၅				
ACTIVITY LOG				
Έ				
CTI				
⋖				

ICS 215 - Operational Planning Worksheet

	Incident:																	
' 0	Date:																	
₽	Time (0-24	100 hrs):											Time	Zone:				
DETAILS	Operationa	al Period (Date/Ti	ime)		Dat	e From: _							Date	To:				
						Time From: Time To: _												
	Prepared b	by (Site Operation	ns Section Chief)):		,								Signa	ture			Reporting Location	
	Branch	Division, Group, or Other	Work Assignment & Special Instructions	Resources											Overhead Position(s)	Special Equipment & Supplies	Reporting Location	Requested Arrival Time
<u>១</u>				Req.														
OPERATIONAL PLANNING			-	Have Need														
Ą				Req.														
7				Have														
₽				Need														
Ö				Req.														
Ŧ				Have														
2				Need														
Ä				Req.														
O				Have														
				Need														
			I	Req.														
				Have														
				Need														
				Req.														
				Have														
				Need		+	+				1							
		7	Total Resources Re Total Resources – Have or	quirea		-	-				-							
			Total Resources – Have or			+	+											
			Total Resources Need to	Order			1								Page:			
															ı ay c .			

ICS 215a - Incident Action Safety Plan Analysis

	Incident:					
	Date:					
DETAILS	Time (0-2400 hrs):			Time Zone:		
ETA			Date To:			
	Prepared by (Site Safety Officer):	ne From:	Time To:			
			Signature:			
	Prepared by (Site Operations Section Chief):	Name:	Signature:			
	Incident Area	Hazards/Risks	Mitiga	tions		
NA.						
L						
INCIDENT ACTION SAFETY PLAN						
NOIT						
l AC						
:IDEN.						
¥						

PAGE 1 OF 1

ICS 221 - Demobilization Checkout

"	Incident Name/Number:	Date/Time:				Demob Number	mber:				
	Prepared by (Site Planning Section Chief or EOC Planning Chief):					Signature					
	Approved by (Incident Commander):					Signature					
AILS	Unit/Personnel Released:										
DETAILS	Transportation Type/Number:										
_	Actual Release Date/Time:				Manifest Completed ☐ Yes ☐ No						
	Destination:	Notify ICP □		Agency	Region □		Area □	Dispatch □			
		Name									
	You and your resources have been released subject to Sign-Off from the following: Planning Section Chief - Check the appropriate box										
	LOGISTICS SECTION	ENTS									
	☐ Logistics Section Chief										
	☐ a. Additional Support										
	☐ b. Additional Services										
ᇦ											
UNIT/PERSONNEL	PLANNING SECTION										
.RS	☐ Planning Section Chief										
<u> </u>											
Ξ	☐ Engineering										
_	☐ Human Resources										
	□ Legal										
	OPERATIONS SECTION										
	☐ Operations Section Chief										
	☐ Staging Area Manager										
	☐ Public Protection Group Supervisor										
	☐ Roadblock Team										
	☐ Rover Evacuation Team										
							Page 1 of 2				

	Incident Name/Number:	Date/Time:	Demob Number:
DETAILS	Prepared by (Site Planning Section Chief or EOC Planning Chief):		Signature
DET	Approved by (Incident Commander):		Signature
	☐ Air Monitoring Team		
	☐ Reception Team		
	☐ Telephone Team		
	☐ On-Site Group Supervisor		
	☐ Fire Control Team		
	☐ Isolation Repair Team		
	☐ Spill Response Team		
	☐ Site Security Team		
	☐ Ignition Team		
70	□ a. Additional Support		
ĵ.			
īţi	☐ b. Additional Services		
ပိ			
UNIT/PERSONNEL Continued	FINANCE / ADMIN SECTION		
Ö	☐ Finance/Admin Section Chief		
ERS	☐ Business Impact Support		
Ī			
3	EMERGENCY OPERATIONS CENTRE (EOC)		
	☐ EOC Director		
	☐ Operations and Technical Support		
	☐ Regulatory/Government Liaison		
	REMARKS:		
			Page 2 of 2

ICS 230 – Daily Meeting Schedule

	Incident:								
DETAILS	Operational Period (Date Froi	m:		Date To:				
Ė		Time Fro	m:		Time To:				
	Prepared by (Planni	ng Chief):		Signature:	:	Date/T	e/ I Ime		
	Date/Time	Meeting Name	Purpose		Attendees		Location		
OULE									
뿡									
NG S									
MEETING SCHEDULE									
_									

PAGE 1 OF 1

ICS 234 – Work Analysis Matrix

	Incident:									
DETAILS	Operational Period (Date/Time)	Date From:								
8	Prepared by (Operations Chief):	Time From:	Signature:	Time To:	Date/Time					
	Operation's Objectives DESIRED OUTCOME		Strategies HOW		Tactics/Work Assignments WHO, WHAT, WHERE, WHEN					

11.4 ERP Forms

Environmental Monitoring Record

	Incident:													
NILS	Date:													
DETAILS	Time (0-2400 hrs):		Time Zone:											
	Completed by:		Response Te	am Position:										
	Time	Location of	LEL	O ₂ (%)	H₂S	SO ₂	Other	Temp. (C/F°)	emp. Wind Con					
	Time	Sample:	(%)	(%)	(ppm)	(ppm)	Other	(C/F°)	From	Speed (km/h/mph)				
ORD														
3 REC														
ORING														
ONIT														
ENVIRONMENTAL MONITORING RECORD														
MENT														
RON														
EN														
								Page:						
								raye.						

Notification Record

	Incident:										
III	Date:										
DETAILS	Time (0-2400 hrs):		Tiı	me Zone:							
	Completed by:		1								
		Who was notified?	Date/Time	Who did notification?							
	Supervisor:										
	Ambulance:										
NDEF	Police:										
INCIDENT COMMANDER	Fire Department:										
	Forestry Service:										
	Local Authority:										
	Prime Contractor:										
	Area Stakeholder:										
	Other:										
		Who was notified?	Date/Time	Who did notification?							
	Executive Team:										
	President:										
単	Disaster Services:										
NS C	Regulatory Authority:										
EOC OPERATIONS CHIEF	Workplace Health and Safety										
OPE	Authority:										
E00	Health Authority:										
	Hospital/Health Care Facility:										
	Environmental Agency:										
	Other:										
		,		Page:							

Roadblock Checkpoint Record

	address streetpent to							
	Incident:							
III.S	Date:							
DETAILS	Time (0-2400 hrs):						Time Zone:	
	Completed by:	Response To	Team Position:					
	Vehicle Type	Licence Plate Number & Province/State	Name of Driver (if available)	Number of People in Vehicle	Time Entering EPZ	Time E EP	xiting Z	Comments (Record all vehicles turned away)
ORO								
RECC								
INIC								
CKPC								
몽								
ROADBLOCK CHECKPOINT RECORD								
ADBI								
8								
								Page:

Note: The licensee has the responsibility to protect the public but without the assistance of the police cannot legally prevent the public from entering the secured area. If someone insists on going through the roadblock, ask him or her for emergency contact numbers, this may encourage the driver to stop.

Spill/Release Written Report Form

	Incident:											
VILS	Date of Notification	n:										
DETAILS	Time of Notificatio	n (0-2400 hrs)	:				Time Zone:					
	Completed by:				Phone Number:							
۲۲	Name of person w	ho discovered	release:		Phone number:							
DISCOVERY	Date of Release (I	Estimate if ned	essary):		Time of Release (Estimate if necessary):						
DIS	Date Release Disc	covered:			Time Release Dis	covered:						
	Nearest Town/Roa	ad Intersection	i:									
	Directions:											
LOCATION	Facility Name (any	/ signs indicat	ing well name	, rig number, etc.?):								
T(LSD, if known:											
	Additional Location	n Information:										
S	Temperature °C											
WEATHER CONDITIONS	Wind speed and direction:											
CO	Precipitation:											
	Name of product/s	substance:										
ELEASE	Volume (m³)/Quar	ntity (bbl) Spille	ed/Released:		Volume/Quantity Recovered:							
SPILL/RELEASE	□ Sweet gas	□LVP	□HVP	☐ Toxic substance	□ Sour gas	☐ Produced water	□ Oil	□ Other				
	Was there a fir	re? □ Yes	□ No		Was there an	explosion? ☐ Yes ☐ No)					

		Yes	No	D	etails					
	Is the health or safety of any individuals (residences, communities, etc.) in imminent danger?									
7	Are any specially designated environmental areas (wetland, preserves, etc.) in imminent danger?									
MATIOI	Was any waterway affected?			If yes, provide name	of waterway:					
RELEASE INFORMATION	Was release contained? If no, describe dimensions of release (length, width depth). If yes, describe containment (within firewall, booms, etc.).									
盗	Description of release and impacts, including wells and/or facilities involved, and the source of release (stuffing box rubber on well head burned up, internal corrosion on flow line, etc.):									
	·		,							
	Resource	Contractor/Equipment			Estimated Cost					
	List contractors summoned to assist in containment:				\$					
					\$					
					\$					
					\$					
	List contractors summoned to assist in clean-up:				\$					
SNO					\$					
CTIC					\$					
NSE A	List special clean-up equipment used:				\$					
RESPONSE ACTION	Describe remedial action taken and current status:				\$					
RE	Describe remedial action taken and current status:									
				Page:						

STARS®

Site Number ______ Location ____

Remote Site Landing Zone Reference Card

In the event of a SITE EMERGENCY
PHONE the STARS Emergency Link Centre®

TOLL FREE

OR

DIRECT

403-299-0932

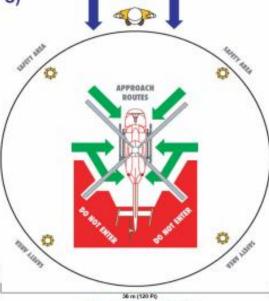
1-888-888-4567

BE PREPARED WITH THE FOLLOWING INFORMATION

- 1. STARS Site Number
- 2. Location of site (Legal Land Description or GPS)
- 3. Contact phone number at the site
- 4. Known hazards on-site
- If applicable, is there a monitor on-site confirming the presence of H₂S

SAFETY GUIDELINES

- the landing zone should be on level ground, (less than 5% slope) at least 36 x 36 metres (120 x 120 ft) and more, if possible, to include a safety zone
- check for loose debris in landing zone THIS IS OF VITAL IMPORTANCE
- ensure no one approaches the helicopter STARS crew will approach you when safe to do so
- everyone should be at least 30 metres from landing zone during landing and takeoff, due to possibility of injury from loose debris caused by rotor downwash
- movement around aircraft is to be in safe areas only



WIND DIRECTION

LZ OFFICER

STARS LANDING ZONE

. if necessary, provide road blocks approximately 500 metres on either side of the landing zone

PRE-LANDING CHECKLIST

The STARS Emergency Link Centre will require the following information from the site:

TERRAIN

level or sloping type of surface dust, loose snow, rocks, bushes, stumps, etc.

LANDING ZONE MARKINGS

4 turbo flares or strobe flares (no chemical flares)
4 highway cones (days only)
Extra strobes, flares, or cones on upwind side

HAZARDS

signs vehicles trees equipment wires

Status Board

	Incident:	Incident:								
	Date:									
SIII	Time (0-2400 hrs):			Time Zone:						
DETAILS	Operational Period Start:									
	Level of emergency:									
	Completed by:									
	Size of the EPZ:									
	Number of residences:									
	Number of businesses:									
	Number of public facilities:									
¥	Number of school children:									
IE DA'	Number of rivers and streams:									
NOZ	Number of industry operators:									
EMERGENCY PLANNING ZONE DATA	Number of trappers:									
	Number of grazing lessees:									
ENCY	Number of roadblocks:									
MERG	Mobile air monitoring:									
Ē	Media:									
	Mutual Aid:									
	Weather:									
	Injuries/Fatality:									
	Other:									
"										
NOTES										
2										
				Page:						

Telephone Checklist for Threatening Calls

	Date:											
တ												
DETAILS	Time (0	-2400 hrs):							Time Zone:			
Ţ												
	Comple	ted by:										
	When	a threat is received:										
		 Have someone liste 	n in	on the call and hav	e call traced	if no	esihla					
		 Listen. 	/ 11 111	on the call and hav	c can tracea,	про	ooibic.					
		 Be calm and courte 	ous.									
		 Do not interrupt the 	calle	er.								
		 Obtain as much infe 										
	Quest	tions to ask for bomb t										
	When is the bomb going to explode?											
	Where is it right now?											
		 Why did you place 		omb?								
LS		 What does it look li 	-									
Σ	,	What will cause it to explode?										
DE		What is your name	and	address?								
CALL DETAILS	Exact	Exact wording of the threat:										
ξ												
	BAC	KGROUND SOUNDS										
	[8	Street Noises		PA System			Motor		Animal noises			
		.ocal		Crockery			Music		Office machinery			
	[] (Clear		Long distance			Voices		House noises			
	[] F	actory		Static			Booth		Other			
	THREATENING LANGUAGE											
	Well spoken (educated) Foul						[] Irra	tional				
	Π N	Message being read by t	hreat	maker	Taped			t				
		uishing accent:			2				-			
	Age:					Sex	:					
	Length	of call:				Number called:						
ILS	Longin	or can.				Number called:						
CALLER DETAI	CALL	ER'S VOICE										
		Calm		Angry			Excited		Slow			
屿	[] F	Rapid		Soft			Loud		Laughter			
ΑLI	[] (Crying		Normal			Distinct		Slurred			
S		Vasal		Stutter			Lisp		Raspy			
		Э еер		Ragged			Clearing throat		Deep breathing			
		Cracking		Disguised			Accent		Familiar			
If familiar, who did it sound like:												
NOTES												
0												
~												
									Page:			

11.5 Stakeholder Forms

Stakeholder Contact Record

	Incident:											
IIIS	Date:											
DETAILS	Time (0-2400 hrs):				Time Zone:	:						
	Completed by:				Response	Team Pos	sition:					
	Resident ID	Name	Shelter in Place or Evacuate	Number of Inside	of People Outsid	de	Assistance or Transportation		Comments			
							Required					
Q												
CORI												
r RE(
TAC												
CON												
DER												
님												
STAKEHOLDER CONTACT RECORD												
S												
						Page:						





contact our head office at .



Reception Centre Registration Form (to be filled out by evacuees)

	Incident:										
NILS	Date:										
DETAILS	Time (0-2400 hrs):				Time Zone:						
	Completed by:										
Z	Last Name		First Name		Middle Initial:						
EVACUEE INFORMATION	Sex:	Age:	Address:								
EN INFO	City:		Province:		Phone Number:						
	First Name	Middle Initial	Last Name	Relationship to above	Gender	Age					
EVACUATED FAMILY MEMBERS											
SUATED FAI											
CUAT											
EVA											
면 인											
RNA1											
ALTERNATE CONTACT INFO											
CAL											
SPECIAL MEDICAL NEEDS											
CIAL											
SPE											
ڀ											
I IONA IFO											
ADDITIONAL INFO											
	Arrival Time:				Departure Time:						
CHECK IN/OUT											
ਹ ≧											

Evacuee Expense Claim Form

	Incident:					
ဟု						
₹						
DETAILS	Date:					
	Last Name	First Name				Middle Initial:
_						
8						
EVACUEE INFORMATION	Address:	1				Phone Number:
È	7.44.000					
S						
Ĕ	Cit.	I Danisan				Destal Code:
=	City:	Province:				Postal Code:
핕						
ಶ						
\$	Location of Residence, Business, etc.					
ш						
			\$		Details:	
	Accommodation:					
	/ tocommodation.					
					Details:	
			\$		Dotalis.	
	Meals					
					Details:	
			\$		Details:	
	Other Reasonable Expenses:					
	Other:				Details:	
က္သ						
EXPENSES	Other:				Details:	
Ē			\$			
ᇫ						
ш	Other:		\$		Details:	
			*			
				Total:		
	Evacuee Signature:					
	Company Contact:			Company	Phone Number:	
_				' '		
8						
Ē						
ADMINISTRATION						
S	Approved by:					
Z						
2						
⋖						

11.6 Media Forms

Preliminary Media Statement

Date:(YY/MM/DD)	Responder Name:					
Responder Position:	Responder Phone No.:					
This is the information I can give you so far:						
At (time -	0-2400 hrs) on (date),					
a(n) (fire, explosion, gas rele	ase, spill) occurred at the Company's (location					
name) site, located (distance	e) kilometres (east / west / north / south) of					
(nearest town or city).						
Presently, (number of personn injured cannot be released until their families have been	nel) workers are being treated for injuries. The names and condition of the contacted.					
The (well site, plant, pipeline isolated, or is still flowing) .	, office, drilling location) has been (shutdown,					
Company staff have been activated and are directing en environment.	nergency response procedures to protect the public, our workers and the					
The cause of the (fire, explos	sion, gas release, spill) is not yet known and no estimate of damage is					
available. As information becomes available, news relea	ses will be issued from the Information Officer.					
Any further inquiries should be directed to the Information	on Officer, who will issue a press release at a later time.					
Contact:						
(Name):	(Phone)					
Note: Only the Information Officer designated by the EO media.	C Director is to provide any specific information to the public or the					

Media Contact Log											
Date:				Responder Name:							
Responder Position:				Responders Phone No.:							
	If you fool you are	not the appropriate p	orson to be answerin	ing the modic agencies questions, use the following series of statements							
	If you feel you are not the appropriate person to be answering the media agencies questions, use the following series of statements.										
"NorthRiver Midstream Inc. has a Information Officer to answer all media questions."											
		"May I request the fo	ollowing information to	o expedite your reques	st?" (complete the for	m below).					
	"Thank yo	ou. NorthRiver appred	ciates your cooperation	on and I will pass on th	is information to the a	appropriate person."					
T:	Call Ta	Call Frame		Reporter / Contact	Telephone	e Numbers	Remarks / Information				
Time	Call To	Call From	Media Outlet	Name	Work	Fax	Required				

Page:

Document all key events, conversations, and meetings on this form. Where lengthy notes are necessary, use additional copies or the back of the page.

Government Agency	Contact Log									
Date:				Responder Name:						
Responder Position:				Responders Phone No.:						
If you f	If you feel you are not the appropriate person to be answering the government agency representative's questions, use the following series of statements.									
"NorthRiver Midstream Inc. has a Regulatory/Government Liaison to answer your media questions."										
"May I request the following information to expedite your request?" (complete the form below).										
	"Thank yo	ou. NorthRiver appred	ciates your cooperatio	n and I will pass on th	is information to the a	appropriate person."				
Time	Call To	Call From	Aganov	Contact Name	Telephone	Numbers	Remarks / Information			
rine	Call 10	Call FIOIII	Agency	Contact Name	Work	Fax	Required			

Page:

Document all key events, conversations, and meetings on this form. Where lengthy notes are necessary, use additional copies or the back of the page.

Media Centre Site

Address:	City / Town:	Phone #:
Contact Name:	Office #:	Cell#
Map or directions to site:	1	<u> </u>
Map of allocations to one.		



11.7 Administration Forms

Distribution List

This Core ERP is being distributed as part of NorthRiver's Registered Supplements. For Distribution Information see the Registered Supplement Distribution List for the specific field.



ERP Manual Receipt

EMERGENCY RESPONSE PLAN MANUAL RECIEPT FORM

Upon receipt of this Emergency Response Plan Manual, this Receipt Form must be completed and returned to the Supervisor, Emergency Management & Security in the Corporate Office. The Manual holder is responsible for ensuring that the Manual is kept current by inserting the latest revisions as they are issued.

Recipient Name (please print):
Position:
Field Area Name, if applicable:
Date:
Signed:
ERP Number (from Distribution List):
Name of ERP:
Return signed copy to:
Attention:



Management of Change Request Form

MANAGEMENT OF CHANGE REQUEST FORM Section Number: Page Number: Copies of revised pages attached: ☐ yes ☐ no Description of Amendment: Requested By: Address:_____ Request Acknowledgement: Request Numbered and Logged: Correspondence Required: Approved By: Approval Date: Revision Date:

Issue Date:



12.0 OPERATIONS

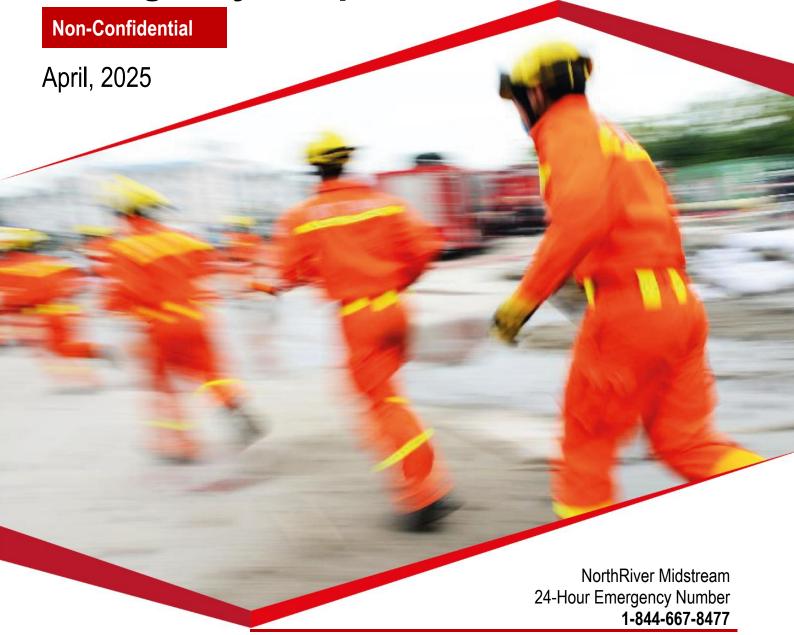


12.1 Tupper Main Registered Supplements

Printing Department: Remove this page, replace with Red tab.



Tupper Main Emergency Response Plan



BCER Emergency Number 1-800-663-3456 AER Emergency Number 1-800-222-6514



REGISTERED SUPPLEMENT EMERGENCY RESPONSE PLAN

TUPPER MAIN AREA

Prepared by:



April, 2025

The purpose of a Registered Supplement ERP is to supplement the Core ERP with field-specific information that enhances the ability of response personnel by providing them with key area emergency response information.



Tupper Main Registered Supplement ERP Receipt Form

Upon receipt of this Tupper Main Registered Supplement, this Receipt Form must be completed and returned to the Supervisor, Emergency Management & Security in the Corporate Office. The Supplement holder is responsible for ensuring that the document is kept current by inserting the latest revisions as they are issued.

Recipient Name (please prin	t):	
Date:		
	Number (from Distribution List):	
Return signed copy to:		
Attention:		



MANAGEMENT OF CHANGE REQUEST FORM

Section Number:	
Page Number:	-
Copies of revised pages attached: \square yes \square no	
Description of Amendment:	
-	
_	
Requested By:	
Address:	
Request Acknowledgement:	
Request Numbered and Logged:	
Correspondence Required:	
Approved By:	
Approval Date:	
Revision Date:	
Issue Date:	

April, 2025 Section 12.0 Page ii of iii



MANAGEMENT OF CHANGE LOG

Annual Review Date: April 29, 2025	
Next Annual Review Date: April 29, 2026	
Date of Update Inserted Into ERP:	
Signature:	

Date Completed (DD/MM/YYYY)	Revision #	Section(s) Updated	Description	Revision ¹	Annual Update ²	
	Moved the Operations Section to be Section 12.					
29/April/2025	3	3 Sec 12	Verified and updated entire Tupper Main Registered Supplement.		\boxtimes	
l •			Updated entire Tupper Main Stakeholder Binder.			
10.1.10		10.1.10	Updated Public Summary section.			
13/May/2024	2	24 2	10.1.11	Updated stakeholder binder.	\boxtimes	
10.1.13		10.1.13	Updated Tupper Main field map.			
29/April/2024	1	Sec 10	Verified and updated entire field supplement.		\boxtimes	
30/April/2023	New	All	New Registered Supplement		\boxtimes	

¹ **Revision**: An interim revision to the ERP when significant changes occur to Company personnel or infrastructure (drilling, facilities, pipelines). A revision does not replace the requirement for an annual update.

² Annual Update: A comprehensive update to all sections of the ERP. The entire document is reviewed and updated to ensure current distribution list, emergency telephone list, roles and responsibilities, mutual aid agreements, response agencies information, government support information, asset tables, safety equipment, and maps. In a Registered Site Specific ERP, the stakeholder database is also verified, a hazard assessment is conducted, and area user contact information is updated.



Registered Supplement Table of Contents

2.0 Oper	rations	1
12.1 Tu	pper Main Registered Supplements	2
	r Main Field Area	
12.1.1	Asset Data: Wells, Pipelines & Facilities	3
12.1.2	Maps	
12.2 Tu	pper Main CER Regulated Pipeline	1
Asset Da	ata: Pipelines	5
	·	
12.3 Tur	pper West Registered Supplement	1
	West Field Area	
12.3.1	Asset Data: Wells, Pipelines & Facilities	3
12.3.2	Maps	4
12.3.3	Tupper West Gas Plant E2 Plan	1
12.4 Sup	pplemental Field Information	1
12.4.1	Field Specific Response Actions	1
12.4.2	Air Monitoring	3
12.4.3	Mutual Aid	4
12.4.4	Authority Roles Coordination	6
12.4.5	Risk Assessment	15
12.4.6	Hazard Summary	

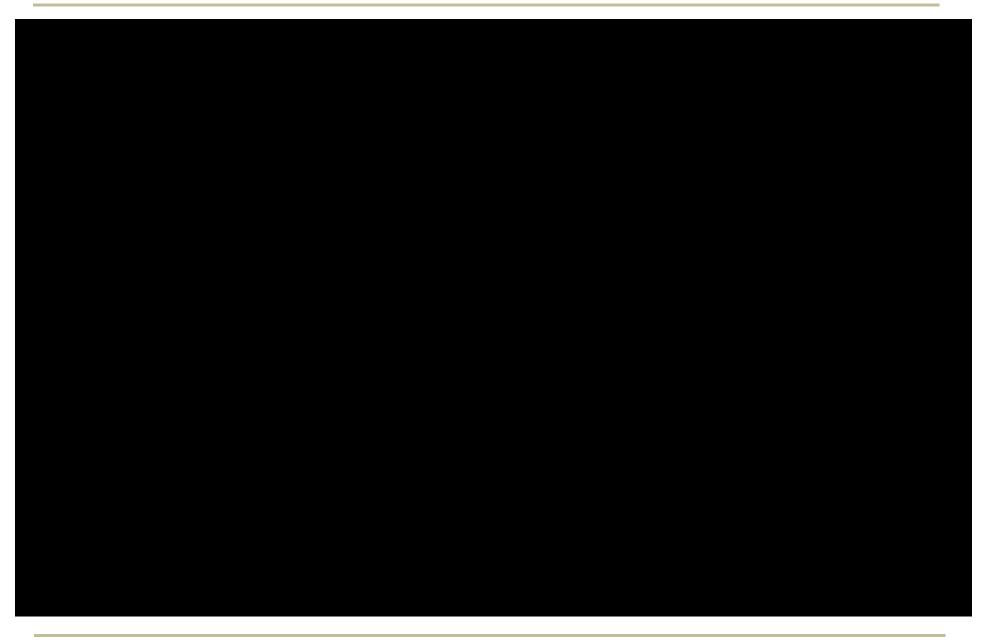


Registered Supplement Distribution List

This Distribution List includes Tupper Main & Tupper West distribution information.

The following individuals will have a copy of this Emergency Response Plan for use as a reference document in the event of an emergency arising from Company operations.







ERP Types

Paper, WEB, Email, APP

Tupper Main Field Area

INCIDENT REPORTING LINE:		1-844-667-8477		
General Inquiries:				
Fort St. John Gas Control				
NorthRiver Main Line				
Primary Incident Command Post: Tupper Main Gas Plant A-021-B/093-	P-09			
Alternate Incident Command Post:				
Dawson Creek Office				
Name		Position	Cell	

Area Summary

NorthRiver's Tupper Main field is an oil/gas producing property located in northeastern British Columbia and in the northwest region of Alberta. The City of Dawson Creek is located approximately 26km northwest of the Tupper Main Gas Plant and Grande Prairie is located approximately 60km from the field area. It is located in Township 74-75, Range 12-13 W6M, in the Peace River Regional District and the County of Grande Prairie No. 1.

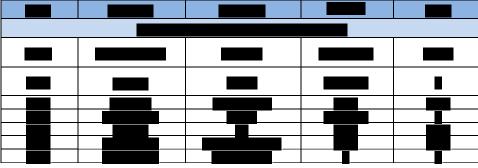
The NorthRiver Tupper Main Gas Plant is the gathering point for sour production from the Tupper Main field and is located in the Peace River Regional District.

The Tupper Main Gas Plant processes the sour gas to remove H2S, hydrocarbon liquids and water. The facility has the option to run a Sulferox unit to convert acid gas to Sulphur cake. Sweet gas production is then pipelined through an interprovincial sales gas pipeline to a TCP Meter Station at 09-07-74-12 W6M.

This pipeline crosses the Alberta / British Columbia provincial border and is regulated by the CER. The Tupper Main Gas Plant is regulated by the BCER.

PIPELINE NAME	LICENSE	Line	OD (inch)	TOTAL LENGTH (KM)	ASSIGNED EPZ (KM)

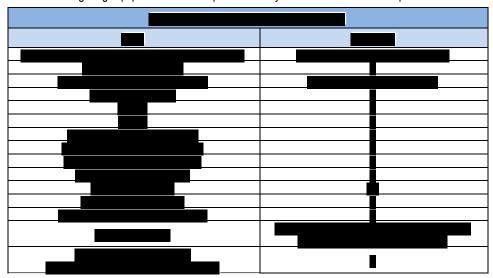
On-Site Storage



Safety Equipment

Field Operator / Truck Safety Equipment

Each field operator's truck contains at minimum a 10lb fire extinguisher, first aid kit, a radio and seasonal fire fighting equipment. All field operators carry a 4 head monitor and a portable radio.



Communications

Cell phones and plant telephones are the primary methods of communication. All company trucks have radio equipment in that are programmed with NorthRiver's VHF frequencies as well as the applicable Resource Road or Loading Channels for any radio-controlled roads in their area.

Ignition

Refer to page 2 "Ignition Services" under "Industry Support Services" for a complete list of companies with ignition services.

Roadblock Kits

Location			Quantity		
		<u> </u>			
	Appropriate readblock locations will be dete	rminad at	the time of the	o incidont	Doodhlook kits contain

Appropriate roadblock locations will be determined at the time of the incident. Roadblock kits contain: Stop/Slow paddle, 2 traffic vests, 5 traffic cones, 2 traffic wands, amber beacon, caution and danger tape, and roadblock check-in sheet.

Highways / Area Roads / Railways

Highway 52 (Heritage Highway) runs north / south through the Tupper Main EPZ.

Highway 2 travels from the southeast to north along the east side of the Tupper Main EPZ. Highway 2 also connects to Highway 52.

There are several petroleum development roads in the area. The roads are a combination of pavement and gravel and not all are all-weather roads. Access to the area is dependent on weather.

Creeks / Rivers / Lakes

There are numerous waterbodies flowing through the field area including Swan Lake, Keering Lake, Ray Lake, Updike Lake, Updike Creek, Little Tupper Creek, Tupper Creek, Bordet Creek and a few unnamed rivers and creeks.

In the event of an emergency near a waterbody, NorthRiver will determine if they need to call WCSS to aid in response activities.

Tie-In Oil/Gas Companies

Company	Location	Mutual Aid Agreement	Key Field Contact
TC Energy Corporation (Nova Gas Transmission Ltd.)	Nova Gas Transmission Ltd. Meter Station & Tie-In 09-07-074-12 W6M	Informal	Calgary, AB: 1-403-920-2000 24 Hour: 1-888-982-7222

Response Procedures: Advise of the situation; request for mutual aid support (if applicable); provide regular reports; advise when the situation has been rectified and advise when normal operations can continue. Communication link between companies will be maintained until normal operations commence.

Waterway Control Points

There are no waterway control points in the field area.

Rights Holders

Refer to Tupper Main & Tupper West Stakeholder Binder.

Oil & Gas Operators

•			
Name	24 Hour Emergency / Office		
Birchcliff Energy Ltd.	1-866-566-2923 / 1-403-261-6401		
Canadian Natural Resources Ltd.	1-888-878-3700 / 1-403-517-6700		
Murphy Oil Company Ltd.	1-888-999-0423 / 1-780-219-2174		
Ovintiv Canada ULC	1-403-645-3333 / 1-403-645-2000		
Pembina Pipeline Corporation	1-800-360-4706 / 1-403-231-7500		
TC Energy Corporation	1-888-982-7222 / 1-403-920-2000		
Tidewater Midstream and Infrastructure Ltd.	1-866-544-9875 / 1-587-475-0210		

Note: The above listed corporate entities are subject to change without notice owing to mergers, acquisitions, relicensing, etc. Information regarding industrial operators is updated in conjunction with map updates.

Reception Centres

Contact	Address	Telephone
Super 8 by Wyndham	1440 Alaska Ave, Dawson Creek, BC	1-866-541-6880
Days Inn by Wyndham	640 122 Ave, Dawson Creek, BC	1-250-782-8887

Stakeholder Data

Refer to Tupper Main & Tupper West Stakeholder Binder.

April, 2025



Government Agencies

Resource	Contact	Cell/24 Hour
Ministry of Emergency Management and Climate Readiness - EMCR	Emergency Coordination Centre 1st call in a Level 1 or greater emergency. The EMCR will forward on the emergency notification onto the BCER On- Call Duty Officer.	1-800-663-3456
	Emergency Coordination Centre	1-250-952-4913
British Columbia Energy Regulator	Non-Emergency Office Line: 1-250-794-5200	Emergency notification received through EMCR.
Peace River Regional District (Zone B-C-D-E)	Ryan Kirkham, Protective Services Manager – 1-250-784-3215 Kevin Clarkson, GM of Community Services – 1-250-784-3218	1-800-670-7773
RCMP - Dawson Creek	NCO In Charge	1-250-784-3700 911
Health Emergency Management BC, North (HEMBC) – Dawson Creek Health Unit	Owen Brokenshire: 1-250-617-1468 Mary Char 2480	1-855-554-3622
Ministry of Environment – Peace Regional Office	1-250-645-3189 Environmental Emergency Response Officer (Peace Region)	1-250-787-3411
Ministry of Forests - Peace Natural Resource District	District Manager	1-250-784-1200
WorkSafe BC	Occupational Safety Officer – Fort St. John 24 Hour Number	1-888-621-7233 (SAFE)
Ministry of Transportation and Transit - Peace District (Dawson Creek Area)	Operations Manager	1-250-784-2363
Argo Road Maintenance (South Peace) Inc.	Service Area 21 - South Peace (Dawson Creek - Pouce Coupe)	1-800-663-7623
BC One Call	Province-wide	1-800-474-6886
Drug and Poison Information Centre	Province-wide	1-800-567-8911
Report a Wildfire	Province-wide	1-800-663-5555 *5555 Cell Phone
Technical Safety BC	Province-wide	1-866-566-7233
BC Hydro	Province-wide	1-888-POWERON (1-888-769-3766) *49376 Cell Phone
Public Services and Procurement Canada - BC Alaska Highway Maintenance	Province-wide	1-250-774-6956
Government of Canada - DFO (Department of Fisheries and Ocean)	Canadian Coast Guard Western Region	1-800-889-8852
Environment and Climate Change Canada	Canada-wide	1-800-668-6767
CN Railway Co Police Service	Canada-wide	1-800-465-9239
Canadian Pacific Kansas City (CPKC) - Police Service	Canada-wide	1-800-716-9132
CANUTEC TDG - Emergency Reporting Line	Canada-wide	1-888-226-8832 *666 Cell Phone
Transportation Safety Board (CER Regulated Emergencies)	Canada-wide	Pipeline Emergencies 1-819-997-7887
NAV Canada - Notice to Airmen	Canada-wide	1-866-992-7433

Emergency Services

Contact	Location	Telephone	
Emergency Response Assistance Plan (ERAP)			
Emergency Response Assistance Canada	Canada-wide	1-800-265-0212	
Amb	ulance - Municipal		
BC Ambulance Service	BC-wide	1-800-461-9911 (where 911 not available) SAT Phone 1-250-374-5937	
	bulance - Oilfield		
CIS Safety & Rentals 911 Industrial Response	Grande Prairie Grande Prairie	1-866-694-9111 1-780-834-7992	
·	Air Ambulance		
BCAS Provincial Air Ambulance Coordination Centre	BC-wide	911 1-800-461-9911 (where 911 is not available) 1-250-374-5937 (Sat Phone)	
STARS Landing Site Number Tupper Main Gas Plant a-21-B/93-P-09	BC-wide	1-888-888-4567 or 1-403-299-0932	
Hospitals			
Emergency Services will determine the nearest hospital to transport patient(s) to in the event of an injury or fatality			
Fire Fighters - Municipal			
Pouce Coupe Fire Hall Dawson Creek Fire Hall Central Peace Fire & Rescue	Pouce Coupe Dawson Creek Spirit River	1-250-786-5794 1-250-782-9898 1-780-864-3500	
Fire Fighters - Oilfield			
Trojan Safety Services Ltd. Safety Boss	Fort St. John AB / BC wide	1-250-785-9557 1-800-882-4967	

Industry Support Services

Contact	Location	Telephone		
Air Quality Monitoring Equipment				
AAA Safety & Field Services	Fort St. John	1-250-263-4607		
Trojan Safety Services Ltd.	BC-wide	1-250-785-9557		
Bus Transportation				
Standard Bus	Dawson Creek	1-250-788-3909		
BC North Bus	Fort St. John	1-844-564-7494		
Helicopters				
Bailey Helicopters Inc.	BC-wide	1-877-822-2245		
Canadian Helicopters Limited	BC-wide	1-250-787-0431		
Ignition Services				
Firefly Critical Well Safety Equipment Ltd.	BC-wide	1-403-342-1050		
Firemaster Oilfield Services	BC-wide	1-877-342-3473		
Spill Response / Environmental Services				
WCSS	Fort St. John	1-866-541-8888		
GFL Environmental Inc.	BC-wide	1-877-244-9500		
Well Control Equipment				
Capstone Blowout Recovery	BC-wide	1-866-347-3911		
Firemaster Oilfield Services	BC-wide	1-877-342-3473		

Note: The above listed corporate entities are subject to change without notice. Information regarding support services is accurate at time of printing.

Spill Response

WCSS - Coop 5	Contact Information
Emergency 24-Hour Number	1-866-541-8888
Chairman: Sandra Miller, ARC Resources Ltd.	Ph: 1-587-202-0637 Cell: 1-780-296-5822
Alt. Chairman: Mike Doerksen, PGI Processing ULC	Cell: 1-780-622-7358
Alt. Chairman: Megan Bridger, Paramount Resources Ltd.	Ph: 1-403-303-1957 Cell: 1-780-926-6339
Custodian: Arc Resources Ltd. (Ron Toly & Sandra Miller)	24hr: 1-250-219-8180 Ph: 1-587-202-0637
Custodian: Arc Resources Ltd. (Sandra Miller)	24hr: 1-250-219-8180 Ph: 1-587-202-0637
Custodian: Silver Peak Services (Martin Danny)	24hr: 1-780-827-4776 Cell: 1-780-827-8739
Custodian: Avenge Energy Services Inc.	24hr Dispatch: 1-780-617-0555
Custodian: Pembina Pipelines (Dwayne Jones)	24hr: 1-780-524-3938 Cell: 1-780-524-8877 Ph: 1-780-524-3392 ext. 2844
Custodian: PGI Processing ULC - Kaybob Amalgamated Gas Plant (Michael Doerksen)	24hr:1-780-622-6274 Ph: 1-780-622-6250 Cell: 1-780-622-7358

WCSS - Coop 9	Contact Information
Emergency 24-Hour Number	1-866-541-8888
Chairman: Don Brown, Canadian Natural Resources Ltd.	Cell: 1-250-775-0364
Alt. Chairman: Jim Chramosta, Shell Canada Limited	Ph: 1-250-794-3426 Cell: 1-778-256-2685
Alt. Chairman: Kaylin Salanski, NorthRiver Midstream	Ph: 1-250-789-6476 Cell: 1-250-919-7282
Custodian: NorthRiver Midstream (Kaylin Salanski)	24hr: 1-250-262-3446 Cell: 1-250-919-7282
Custodian: Troyer Ventures Ltd.	24 Hr: 1-250-774-5332

Note: Please refer to WCSS.ca for all supporting documentation.

April, 2025



12.1.1 Asset Data: Wells, Pipelines & Facilities

Asset tables on following pages.

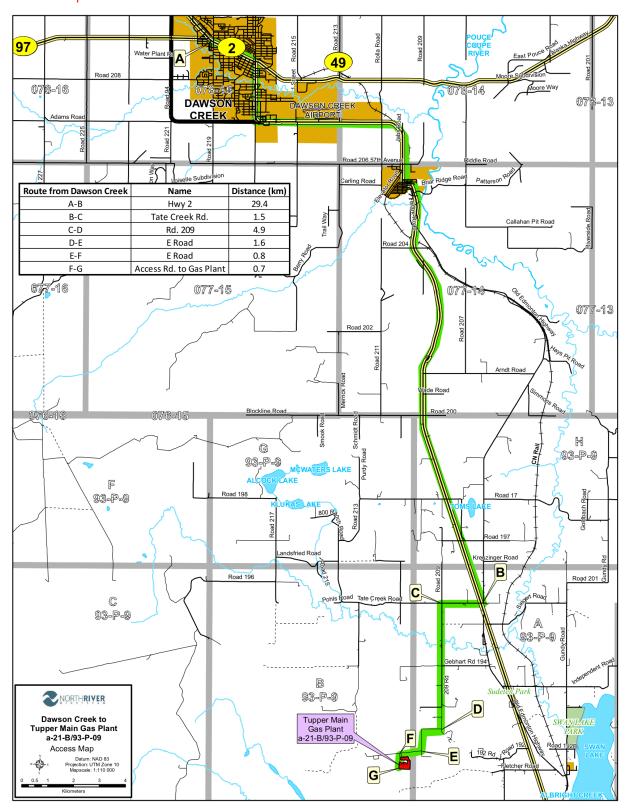




April 2025



12.1.2 Maps





Access Directions

Directions to the Tupper Main Gas Plant a-21-B/93-P-09 Gas Plant

From the intersection of Highway 2 and Highway 97 in Dawson Creek, BC:

- Travel southeast on Highway 2 for 2 km. Stay right on Highway 2 for 27.4 km. Turn right on Tate Creek Rd for 1.5 km.

- Turn left on Rd 209 for 4.9 km.
- Turn right on an Unnamed Access Road for 1.6 km. Turn right on an Unnamed Access Road for 0.8 km.
- Turn left and travel 0.7 km into the Tupper Main Gas Plant a-21-B/93-P-09 site.

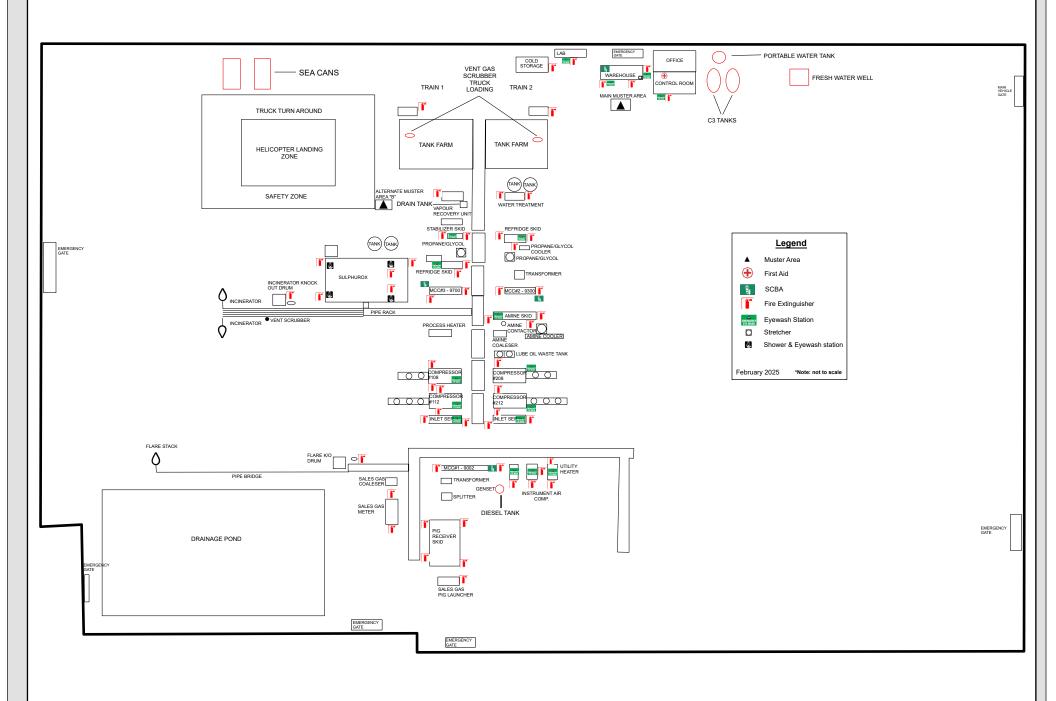
Plot Plan

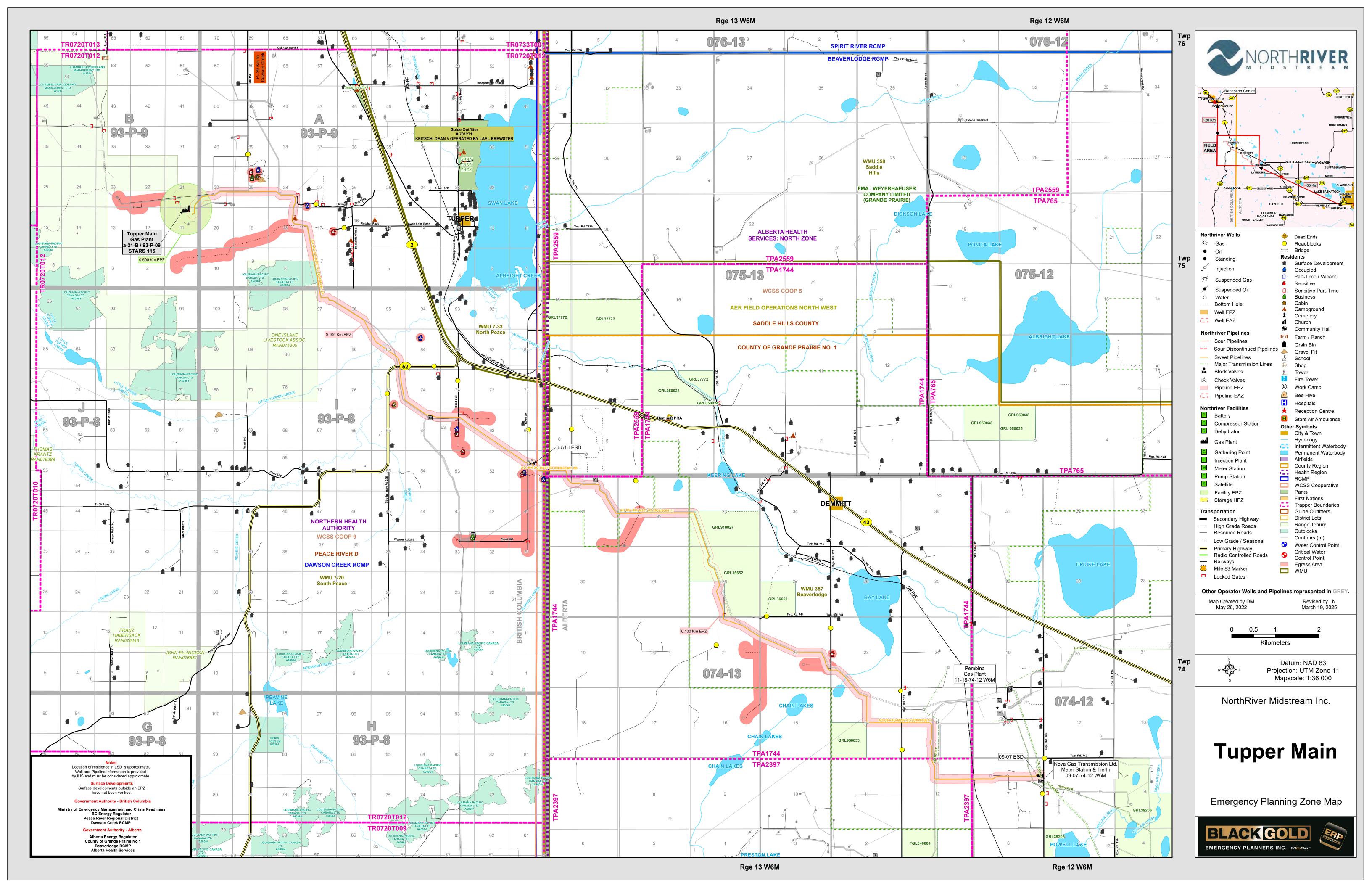
Plot plan on following page:

ERP Map

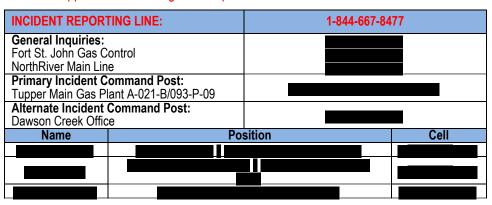
Area map on following page:

TUPPER MAIN GAS PLANT a-21-B/93-P-09





12.2 Tupper Main CER Regulated Pipeline



Contact Information

All incidents, accidents and occurrences as defined by the Onshore Pipeline Regulations (OPR), the Canada Labour Code, and the Transportation Safety Board (TSB) Regulations should be reported.

CALL

For emergencies involving inter-provincial or cross border pipelines, the CER is the Regulatory Authority.

In the event of a CER regulated pipeline emergency, call the TSB's 24-hour hotline (collect calls accepted). The TSB will contact the CER to notify them of the incident.

1-819-997-7887

ONLINE REPORTING

Report all events on the CER's Online Event Reporting System.

This system is intended for use by regulated companies to provide notification to the Canada Energy Regulator (CER) and Transportation Safety Board (TSB) of various events that are defined in regulation including incidents, unauthorized activities, and operations and maintenance activities.

https://apps.cer-rec.gc.ca/ERS/Home/Index/

Area Summary

NorthRiver's Tupper Main field is an oil/gas producing property located in northeastern British Columbia and in the northwest region of Alberta. The City of Dawson Creek is located approximately 26km northwest of the Tupper Main Gas Plant and Grande Prairie is located approximately 60km from the field area. It is located in Township 74-75, Range 12-13 W6M, in the Peace River Regional District and the County of Grande Prairie No. 1.

The NorthRiver Tupper Main Gas Plant is the gathering point for sour production from the Tupper Main field and is located in the Peace River Regional District.

The Tupper Main Gas Plant processes the sour gas to remove H2S, hydrocarbon liquids and water. The facility has the option to run a Sulferox unit to convert acid gas to Sulphur cake. Sweet gas production is then pipelined through an interprovincial sales gas pipeline to a TCP Meter Station at 09-07-74-12 W6M.

This pipeline crosses the Alberta / British Columbia provincial border and is regulated by the CER. The Tupper Main Gas Plant is regulated by the BCER.

PIPELINE NAME	LICENSE	Line	OD (inch)	TOTAL LENGTH (KM)	ASSIGNED EPZ (KM)

Safety Equipment

Field Operator / Truck Safety Equipment

Each field operator's truck contains at minimum a 10lb fire extinguisher, first aid kit, a radio and seasonal fire fighting equipment. All field operators carry a 4 head monitor and a portable radio.



Communications

Cell phones and plant telephones are the primary methods of communication. All company trucks have radio equipment in that are programmed with NorthRiver's VHF frequencies as well as the applicable Resource Road or Loading Channels for any radio-controlled roads in their area.

Ignition

Refer to "Ignition Services" under "Industry Support Services" for a complete list of companies with ignition services.

Roadblock Kits

Location	Quantity	

Appropriate roadblock locations will be determined at the time of the incident. Roadblock kits contain: Stop/Slow paddle, 2 traffic vests, 5 traffic cones, 2 traffic wands, amber beacon, caution and danger tape, and roadblock check-in sheet.

Shutdown of Production Pipes and Pipelines Procedure

The following is a general shutdown procedure, when the pipeline is put back into service this procedure will be reviewed to ensure it is applicable.

Pipelines may require periodic, temporary or emergency shutdowns throughout their lifetimes. Shutdowns may occur for several reasons, scheduled maintenance, required modifications or emergency repairs.

Prior to shutdown, the pipeline shall be purged of sour gas. The following procedure shall be followed

- 1. All sour tie-ins shall be closed and locked out.
- 2. The pipeline will be pigged with sweet gas to purge sour gas and liquids from the pipeline.
- 3. Once the pigging is complete and the pipeline is purged of sour gas the pipeline may be shutdown.
- All tie-in block valves must be locked out.
- 5. The valves must be manually closed.
 - Review of Lock-out/Tag-out procedures
 - Review of a site-specific isolation procedure
 - Review of LEL, Oxygen and H₂S acceptable levels
 - Review or emergency response and egress plans and muster points
 - Document shutdown in company log and identify any anomalies
- After the initial purge, the pipeline shall be flared to atmospheric pressure at the selected flare location.

The pipeline will be considered shutdown when the pipeline has been blown down to atmospheric pressure at the selected flare stack. Each shutdown shall be recorded in the company operations log.

Pipelines that have not seen normal production flow for a period longer than 1 month are considered long term shutdown. If a shutdown is longer than 12 months, it must be moved to a discontinued state.

Highways / Area Roads / Railways

Highway 52 runs north / south through the Tupper Main EPZ.

Highway 2 travels from the southeast to north along the east side of the Tupper Main EPZ. Highway 2 also connects to Highway 43.and Highway 52

There are several petroleum development roads in the area. The roads are a combination of pavement and gravel and not all are all-weather roads. Access to the area is dependent on weather.

Creeks / Rivers / Lakes

There are numerous waterbodies flowing through the field area including Swan Lake, Swan Creek, Keering Lake, Ponita Lake, Dickson Lake, Ray Lake, Albright Lake, Albright Creek, Peavine Lake, Peavine Creek, Bordet Creek, Updike Creek, Storie Creek, Little Tupper Creek, Tupper Creek, Bordet Creek and a few unnamed rivers and creeks.

In the event of an emergency near a waterbody, NorthRiver will determine if they need to call WCSS to aid in response activities.

Tie-In Oil/Gas Companies

Company	Location	Mutual Aid Agreement (yes/no)	Key Field Contact
Energy poration	TCPL Meter Station & Tie-In 09-07-074-12 W6M	Yes (In-formal)	Calgary, AB: 1-403-920-2000 24 Hour: 1-888-982-7222

Response Procedures: Advise of the situation; request for mutual aid support (if applicable); provide regular reports; advise when the situation has been rectified and advise when normal operations can continue. Communication link between companies will be maintained until normal operations commence.



Waterway Control Points

There are no waterway control points in the field area.

Rights Holders

Refer to Tupper Main & Tupper West Stakeholder Binder.

Oil & Gas Operators

•	
Name	24 Hour Emergency / Office
Birchcliff Energy Ltd.	1-866-566-2923 / 1-403-261-6401
Canadian Natural Resources Ltd.	1-888-878-3700 / 1-403-517-6700
Murphy Oil Company Ltd.	1-888-999-0423 / 1-780-219-2174
Ovintiv Canada ULC	1-403-645-3333 / 1-403-645-2000
Pembina Pipeline Corporation	1-800-360-4706 / 1-403-231-7500
TC Energy Corporation	1-888-982-7222 / 1-403-920-2000
Tidewater Midstream and Infrastructure Ltd.	1-866-544-9875 / 1-587-475-0210

Note: The above listed corporate entities are subject to change without notice owing to mergers, acquisitions, relicensing, etc. Information regarding industrial operators is updated in conjunction with map updates.

Reception Centres

Contact	Address	Telephone
Super 8 by Wyndham	1440 Alaska Ave, Dawson Creek, BC	1-866-541-6880
Days Inn by Wyndham	640 122 Ave. Dawson Creek. BC	1-250-782-8887

Stakeholder Data

Refer to Tupper Main & Tupper West Stakeholder Binder.

Supporting Information Table

The table below indicates the location of CER supporting documentation in this emergency response plan.

Supporting Information	ERP Section		
CER Distribution	Forward: Distribution List		
CER Roles and Responsibilities	Jurisdictional Requirements: Canadian Federal Government – Section 9		
CER Definitions of Incident Reporting	Jurisdictional Requirements: Canadian Federal Government – Section 9		
CER Detailed Incident Report	Jurisdictional Requirements: Canadian Federal Government – Section 9		
Notification Requirements for Key Government Agencies and Local Resources	Applicable Jurisdiction – Section 9		
TSB Roles and Responsibilities	Jurisdictional Requirements: Canadian Federal Government – Section 9		
Risk Assessment	Supplemental Field Information		
Hazard Summary	Supplemental Field Information		
CER Regulated Assets	Tupper Main CER – Asset Data		
Maps	Tupper Main CER - Maps		

Government Agencies – British Columbia

Resource	Contact	Cell/24 Hour
Ministry of Emergency Management and Climate Readiness - EMCR	Emergency Coordination Centre 1st call in a Level 1 or greater emergency. The EMCR will forward on the emergency notification onto the BCER On-Call Duty Officer.	1-800-663-3456
	Emergency Coordination Centre	1-250-952-4913
British Columbia Energy Regulator	Non-Emergency Office Line: 1-250-794-5200	Emergency notification received through EMCR.
Peace River Regional District (Zone B-C-D-E)	Ryan Kirkham, Protective Services Manager – 1-250-784-3215 Kevin Clarkson, GM of Community Services – 1-250-784-3218	1-800-670-7773
RCMP - Dawson Creek	NCO In Charge	1-250-784-3700 911
Health Emergency Management BC, North (HEMBC) – Dawson Creek Health Unit	Owen Brokenshire: 1-250-617-1468 Mary Charters: 1-250-645-3189	1-855-554-3622
Ministry of Environment – Peace Regional Office	Environmental Emergency Response Officer (Peace Region)	1-250-787-3411
Ministry of Forests - Peace Natural Resource District	District Manager	1-250-784-1200
WorkSafe BC	Occupational Safety Officer – Fort St. John	1-888-621-7233 (SAFE)
Ministry of Transportation and Transit - Peace District (Dawson Creek Area)	Operations Manager	1-250-784-2363
Argo Road Maintenance (South Peace) Inc.	Service Area 21 - South Peace (Dawson Creek - Pouce Coupe)	1-800-663-7623
BC One Call	Province-wide	1-800-474-6886
Drug and Poison Information Centre	Province-wide	1-800-567-8911
Report a Wildfire	Province-wide	1-800-663-5555 *5555 Cell Phone
Technical Safety BC	Province-wide	1-866-566-7233
BC Hydro	Province-wide	1-888-POWERON (1-888-769-3766) *49376 Cell Phone
Public Services and Procurement Canada - BC Alaska Highway Maintenance	Province-wide	1-250-774-6956
Government of Canada - DFO (Department of Fisheries and Ocean)	Canadian Coast Guard Western Region	1-800-889-8852
Environment and Climate Change Canada	Canada-wide	1-800-668-6767
CN Railway Co Police Service	Canada-wide	1-800-465-9239
Canadian Pacific Kansas City (CPKC) - Police Service	Canada-wide	1-800-716-9132
CANUTEC TDG - Emergency Reporting Line	Canada-wide	1-888-226-8832 *666 Cell Phone
Transportation Safety Board (CER Regulated Emergencies)	Canada-wide	Pipeline Emergencies 1-819-997-7887
NAV Canada - Notice to Airmen	Canada-wide	1-866-992-7433

Government Agencies – Alberta

Resource	Contact	Cell/24 Hour	
Nooduide	Energy and Environmental	JOHN LA HOUI	
	Emergency 24-Hour	1-800-222-6514	
Alberta Energy Regulator	Response Line	1-000-222-0314	
Alberta Eriergy Negulator	Northwest Field Operations -		
	Grande Prairie	1-780-538-5138	
	Trevor Grant - Fire Chief		
		1-780-532-9727	
	(Primary)		
County of Grande Prairie No. 1	Chad Cormack,	1-780-532-9727	
	Deputy Fire Chief		
	Joulia Whittleton, DEM	1-780-532-3722	
	Lee Brachman, Deputy DEM	1-780-532-9727	
Saddle Hills County	Brice Daly, Manager of	1-780-864-3760	
Cadano : mic County	Protective Services		
RCMP - Beaverlodge	NCO In Charge	1-780-354-2955	
Troini Boareneago	1100 iii onaige	911	
		Administration:	
Alberta Health Services	Province-wide	1-833-476-4743	
		edp@ahs.ca	
Alberta Emergency Management	Provincial Emergency	1-780-644-5428	
Agency Agency	Coordination Centre (PECC)	pses.pecc@gov.ab.ca	
Agency	Cooldination Centre (1 LCC)	(non urgent inquiries)	
	Alan Stobbing Emergency	Cell: 1-587-783-9201	
	Alan Stebbing, Emergency Management Field Officer	Email:Alan.Stebbing@	
Alberta Emergency Management	I Management Field Officer	gov.ab.ca	
Agency, Northwest Region	Chris Craham Emarca	Cell: 1-825-993-4235	
	Chris Graham, Emergency	Email:Chris.Graham@	
	Management Field Officer	gov.ab.ca	
		1-800-222-6514	
	Energy & Environment	(Within Alberta)	
Ministry of Environment and	Response Line	1-780-422-4505	
Protective Areas (EPA)	1 toopened Eme	(Outside Alberta)	
110000110711000 (2171)	Peace Region	· · · · · · · · · · · · · · · · · · ·	
	(Peace River)	1-800-222-6514	
	(1 6466 1 11761)	310-FARM	
Alberta Agriculture and Irrigation -		(3276, in Alberta)	
310-FARM	Provincial Resource Agents	1-403-742-7901	
0101711111		(Outside Alberta)	
Alberta Wildfire - Report a Wildfire	Province-wide	310-FIRE (3473)	
Alberta Occupational Health and		` ′	
Safety	Province-wide	1-866-415-8690	
Alberta Edge (Environment and			
Dangerous Goods Emergencies)	Province-wide	1-780-422-9600	
Lighway Maintanana Contractors	Lodger Highways Ltd	1 966 452 2067	
Highway Maintenance Contractors	Ledcor Highways Ltd.	1-866-453-3267	
Utility Safety Partners	Province-wide	1-800-242-3447	
Poison & Drug Information Service	Province-wide	1-800-332-1414	
Alberta Boilers Safety Association	Edmonton	1-780-437-9100	
(ABSA)	Zamonton		
Government of Alberta Toll-Free		310-0000	
Dialing	Province-wide	then 10 digit number or 0	
		for Operator	
Government of Canada - DFO	Canadian Coast Guard		
(Department of Fisheries and	Western Region	1-800-889-8852	
Ocean)	Western Region		
Environment and Climate Change	Canada-wide	1 900 669 6767	
Canada	Cariada-wide	1-800-668-6767	
CN Railway Co Police Service	Canada-wide	1-800-465-9239	
Canadian Pacific Kansas City			
(CPKC) - Police Service	Canada-wide	1-800-716-9132	
CANUTEC TDG - Emergency	0	1-888-226-8832	
Reporting Line	Canada-wide	*666 Cell Phone	
Transportation Safety Board (CER		Pipeline Emergencies	
Regulated Emergencies)	Canada-wide	1-819-997-7887	
NAV Canada - Notice to Airmen	Canada-wide	1-866-992-7433	
11/14 Canada 140tioc to Airmon	- Cariada-Wide	1 000 002-7 400	

Emergency Services

Contact	Location	Telephone		
Emergency Response Assistance Plan (ERAP)				
Emergency Response Assistance Canada	Canada-wide	1-800-265-0212		
Ambula	ance - Municipal			
BC Ambulance Service	BC-wide	1-800-461-9911		
Ambu	lance - Oilfield			
CIS Safety & Rentals 911 Industrial Response	Grande Prairie Grande Prairie	1-780-834-7992 1-866-694-9111		
	Ambulance			
BCAS Provincial Air Ambulance Coordination Centre	BC-wide	1-250-785-2079 or 911		
STARS Landing Site Number Tupper Main Gas Plant a-21-B/93-P-09	BC-wide	1-888-888-4567 or 1-403-299-0932		
	Hospitals			
Emergency Services will determine the nearest hospital to transport patient(s) to in the event of an injury or fatality				
Fire Fighters - Municipal				
Pouce Coupe Fire Hall Dawson Creek Fire Hall Central Peace Fire & Rescue	Pouce Coupe Dawson Creek Spirit River	1-250-786-5794 1-250-782-9898 1-780-864-3500		
Fire Fighters - Oilfield				
Trojan Safety Services Ltd. Safety Boss	Fort St. John AB / BC wide	1-250-785-9557 1-800-882-4967		

Industry Support Services

mausity Support Services				
Contact	Location	Telephone		
Air Quality Monitoring Equipment				
AAA Safety & Field Services	Fort St. John	1-250-263-4607		
Trojan Safety Services Ltd.	BC-wide	1-250-785-9557		
Bu	s Transportation			
Standard Bus	Dawson Creek	1-250-788-3909		
BC North Bus	Fort St. John	1-844-564-7494		
Helicopters				
Bailey Helicopters Inc.	BC-wide	1-877-822-2245		
Canadian Helicopters Limited	BC-wide	1-250-787-0431		
Ignition Services				
Firefly Critical Well Safety Equipment Ltd.	BC-wide	1-403-342-1050		
Firemaster Oilfield Services	BC-wide	1-877-342-3473		
Spill Response / Environmental Services				
WCSS	Fort St. John	1-866-541-8888		
GFL Environmental Inc.	BC-wide	1-877-244-9500		
Well Control Equipment				
Capstone Blowout Recovery	BC-wide	1-866-347-3911		
Firemaster Oilfield Services	BC-wide	1-877-342-3473		

Note: The above listed corporate entities are subject to change without notice. Information regarding support services is accurate at time of printing

Spill Response

WCSS - Coop 5	Contact Information
Emergency 24-Hour Number	1-866-541-8888
Chairman: Sandra Miller, ARC Resources Ltd.	Ph: 1-587-202-0637 Cell: 1-780-296-5822
Alt. Chairman: Mike Doerksen, PGI Processing ULC	Cell: 1-780-622-7358
Alt. Chairman: Megan Bridger, Paramount Resources Ltd.	Ph: 1-403-303-1957 Cell: 1-780-926-6339
Custodian: Arc Resources Ltd. (Ron Toly & Sandra Miller)	24hr: 1-250-219-8180 Ph: 1-587-202-0637
Custodian: Arc Resources Ltd. (Sandra Miller)	24hr: 1-250-219-8180 Ph: 1-587-202-0637
Custodian: Silver Peak Services (Martin Danny)	24hr: 1-780-827-4776 Cell: 1-780-827-8739
Custodian: Avenge Energy Services Inc.	24hr Dispatch: 1-780-617-0555
Custodian: Pembina Pipelines (Dwayne Jones)	24hr: 1-780-524-3938 Cell: 1-780-524-8877 Ph: 1-780-524-3392 ext. 2844
Custodian: PGI Processing ULC - Kaybob Amalgamated Gas Plant (Michael Doerksen)	24hr:1-780-622-6274 Ph: 1-780-622-6250 Cell: 1-780-622-7358

WCSS - Coop 9	Contact Information
Emergency 24-Hour Number	1-866-541-8888
Chairman: Don Brown, Canadian Natural Resources Ltd.	Cell: 1-250-775-0364
Alt. Chairman: Jim Chramosta, Shell Canada Limited	Ph: 1-250-794-3426 Cell: 1-778-256-2685
Alt. Chairman: Kaylin Salanski, NorthRiver Midstream	Ph: 1-250-789-6476 Cell: 1-250-919-7282
Custodian: NorthRiver Midstream (Kaylin Salanski)	24hr: 1-250-262-3446 Cell: 1-250-919-7282
Custodian: Troyer Ventures Ltd.	24 Hr: 1-250-774-5332

Note: Please refer to WCSS.ca for all supporting documentation.



Asset Data: Pipelines

Asset tables on following pages.







Maps

ERP Map

Refer to the Tupper Main – Maps Tab 12.1.2 for further information.



12.4 Supplemental Field Information

Remove this page and add side white tab.



12.4.1 Field Specific Response Actions

Area Isolation

The Incident Commander has overall responsibility for isolating the hazard area. Access to the incident location will be restricted by responding personnel who shall:

- Establish roadblocks at required sites to secure identified HRZ.
- Ensure responders have proper safety equipment, i.e. PPE, air monitors, etc.
- Take air quality monitoring readings periodically for your safety and reposition as necessary.
- Record any incoming and outgoing vehicles and equipment.

Highway 52 and 97 traverses through the EPZ. Highway 52 and 97 will be isolated by Argo Road Maintenance (South Peace) Inc. accompanied by the RCMP. NorthRiver will assist with providing additional manpower and equipment, as required. If required, Argo Road Maintenance (South Peace) Inc. in conjunction with the RCMP and the Ministry of Transportation and Transit will establish detour routes/traffic points

Notification

The Public Protection Group Supervisor will be responsible for notifying stakeholders and transients in the EPZ. If necessary, the Public Protection Group Supervisor may delegate notification duties to the Telephone Team Leader.

In a Level 1 Emergency, notification must be made to all stakeholders with special needs or who requested early notification. All stakeholders and locations with unknown phone numbers are deemed special needs and must be visited during a Level 1 Emergency. Impacted non-resident landowners (district lots) will be notified by pulling the applicable land title(s), as required.

In the event of a Level 2 or 3 Emergency, the NorthRiver Public Protection Group Supervisor will contact all Rights Holders and other area users in the EPZ.

See ERP map for more details.

Transients

Response personnel will be dispatched to the incident location to deliver evacuation notices during an emergency.

The Incident Commander and Public Protection Group Supervisor may also dispatch a helicopter (during daylight hours) equipped with a loud hailer to search the area for transients (industrial operators, area trappers, recreational users, etc). A Rover will drive on the road(s) within the HRZ to ensure that there are no transients.

The status of any transients spotted from the air would be communicated to the Public Protection Group Supervisor for follow-up. If the Rover encounters any parked vehicles in the EPZ, he/she will leave a Notice of Evacuation.

April, 2025 Section 12.0 Page 1 of 20



Evacuation

NorthRiver may decide to evacuate the HPZ if the emergency appears it will be of a long duration. NorthRiver cannot force an evacuation unless the local authority has declared a state of emergency; in which case, evacuation is mandatory.

The Public Protection Group Supervisor will dispatch Rovers or activate Telephoners to evacuate stakeholders to the designated Reception Centre. Pets should be evacuated with the residents to the Reception Centre.

Federal:

Restriction of Airspace	Agency
Notice to Airmen (NOTAM)	NAV Canada

British Columbia:

Closure Order	Agency
Petroleum Development Road	BCER
Forestry Roads	Ministry of Forestry
Numbered Highway	Ministry of Transportation and Transit

Alberta:

Road Closures:

- Highway (HWY) Roads: Alberta Transportation/511 Alberta and Parks Canada work with RCMP, local law enforcement and emergency services to determine highway closures.
- Municipal Roads (Titled Land): A landowner interested in requesting a road closure must contact their town, village, municipal, or county office to request to initiate the closure process.

Road closures | Alberta.ca

Shelter in Place

If there is no advanced warning to an incident, or if a release is of a short duration (several minutes to half an hour) the Public Protection Group Supervisor will initiate Shelter in Place procedures.

Stakeholders will be asked to remain inside and ensure all windows and doors are closed, and that all air intakes (furnace, stove, bathroom and dryer vents) are plugged to limit exposure to outside air.

The Public Protection Group Supervisor will notify sheltered stakeholders once the emergency has been stood down.

Ignition

If an immediate threat to human life exists and there is not sufficient time, the Incident Commander is authorized to ignite the release.

It is important that mobile air quality monitoring be dispatched as quickly as possible to the emergency site because specialized monitoring equipment can more accurately record readings in the emergency area.



12.4.2 Air Monitoring

There are a number of companies that provide air monitoring services in case of an emergency where either mobile or stationary air quality monitoring is required. The table below identifies the number of units, location and approximate response time, based on availability and road and weather conditions at the time of the emergency.

Company	Equipment	Number	Location	Response Time
	SCBA air packs SABA air packs	2 6		
	1200' of hose			
	6-outlet manifolds	2		
	4500psi high pressure air bottles	8		
	Recharge line	1		
	Two stage high/low pressure regulators	2		
AAA Safaty and Field	3-way splitter for air lines	1		Immediate
AAA Safety and Field Services	Pull tube Draeger gas detector	1	Fort St. John	+ Travel time
Services	Fall protection harness and 6' lanyard	1		+ Haverume
	Signage, flags and flag poles, windsock, flagging tape			
	Fall protection harness and 6' lanyard	1		
	Downwind mobile air monitoring (van)	3		
	Personnel			
	ervices has a total of eleven (11) 4500) psi Supplied Air Tra	ilers. Each trailer cor	tains the
above-mentioned equipment. E	Extra equipment can be requested.		T	T
	Air Trailers Supplied Air			
	Standalone air monitoring units solar	4		
	Standalone air monitoring units Standard	As needed	Fort Ot John	
Trojan Safety Services	Downwind mobile air monitoring (van) from GP	As required	Fort St. John	+/- 1 hour +/- 3 hour
	Mobile air monitoring unit	3-4	Grande Prairie	+ Travel time
	Stationary air monitoring unit	As required		
	Roadblock kits / personnel	As required		
	Ignition Kits	As required		
British Columbia Energy Regulator (not contract service)	Roaming air monitoring unit (RAM)	1	Fort. St. John	+/- TBD*

^{*}The BCER mobile air monitoring unit would be dispatched as a resource of last resort. Responders would have to clearly demonstrate that there are no available units that could reach the incident location within a reasonable amount of time.

April, 2025 Section 12.0 Page 3 of 20



12.4.3 Mutual Aid

The purpose of a Mutual Aid agreement is to clarify and agree upon a coordinated level of response for an emergency incident involving licensed NorthRiver Midstream Inc., and third-party operators.

NorthRiver Midstream Inc. has in-formal mutual aid agreements with the following.

Company Name	24 Hour Emergency Number
Advantage Energy Ltd	1-866-266-5623
ARC Resources Ltd.	1-403-292-0434
ATCO Gas (Alberta)	1-800-511-3447
ATCO Power (FN/Alberta)	1-800-668-5506
BC Hydro	1-800-224-9376
BC Hydro Fort Nelson	1-250-233-4239
Bench Creek Resources Ltd.	1-855-542-7241
Blue Sky Resources (SABA Oil and Gas & Zargon Oil and Gas Ltd.)	1-844-514-2462 / 1-403-264-9992
Bonavista Energy Corporation	1-866-971-8317
Canadian Natural Resources Ltd.	1-888-878-3700
Cenovus Energy Inc.	1-877-458-8080
Chinook Energy	1-877-365-1619
Coelacanth Energy Inc. (Leucrotta Exploration Inc.)	1-866-859-5962
Crew Energy Inc.	1-866-384-6240
Diamond LNG Canada Ltd.	1-403-262-6500
Enbridge – Westcoast Energy Inc.	1-800-663-9931
Enercapita Energy Ltd.	1-866-556-7938
EOG Resources Inc.	1-866-248-5020
Erikson National Energy Inc.	1-866-363-6100
GSE&R Canada Ltd.	1-877-414-7784
Kelt Exploration Ltd.	1-855-845-9787
Keyera Corp.	1-250-772-5508 / 1-866-377-7110
Logan Energy Corp.	1-587-770-2011
Murphy Oil Company Ltd.	1-888-999-0423
Ovintiv Canada ULC	1-403-645-3333
Paramount Resources Ltd.	1-866-362-1138
Pembina Gas Infrastructure Inc. (Veresen Midstream)	1-800-360-4706



Company Name	24 Hour Emergency Number
Pembina Pipeline Corporation	1-800-360-4706
Petronas Canada	1-844-299-2566
Plains Midstream Canada ULC	1-866-875-2554
Polar Star	1-866-741-6408
Procyon Energy Corporation	1-866-839-9746
Spartan Delta Corp.	1-403-266-8670
Storm Development Corp.	1-833-570-7997
Suguaro Resources (Tourmaline Oil Corporation)	1-877-504-4252
TC Energy Corporation	1-888-982-7222
Tidewater Midstream and Infrastructure Ltd.	1-866-544-9875
Todd Energy Canada Ltd.	1-866-490-0343
Tourmaline Oil Corporation (Rising Star Resources Ltd. & Black Swan Energy Ltd.)	1-877-504-4252
Vermilion Energy Inc. (Leucrotta Exploration Inc.)	1-844-621-2858 / 1-844-621-2859

It must be agreed upon prior to any type of third-party response that the Company will remain the primary emergency responder, and that any assistance provided by third parties must be under the supervision of a Company representative. Furthermore, the party providing mutual aid must comply with all applicable Company policies and applicable government regulations.

If another Area Operator aids, the principal behind this assistance should remain as follows:

- Companies or individuals aiding are to provide the support outside the lease boundary. The focus will be to
 provide the manpower and support required for roadblock crews, rovers, resident contact, security, and
 evacuation co-ordination as required by the Company requesting the assistance.
- Third party responders will report to the Incident Commander or other coordinating position in the area.
- Individuals aiding retain the right to withdraw the assistance should his/her personal safety be jeopardized.



12.4.4 Authority Roles Coordination

All agencies listed below are contacted by NorthRiver Midstream and provided with the latest stakeholder pamphlet and their role and responsibilities to ensure up to date information regarding operations in their area.

Tupper Main

Type of Agency	Agency Name	Provided pecific Roles	Provided eneric Roles
RHA	Health Emergency Management BC, North (HEMBC) Owen Brokenshire, Health Emergency Management Specialist Mary Charters, Director	X	
Local Authority	Peace River Regional District (Zone B-C-D-E) Ryan Kirkham, Protective Services Manager Kevin Clarkson, GM of Community Services	Х	
RHA	Alberta Health Services Shane Hussey, North Zone Director, Environmental Public Health	Х	
Local Authority	County of Grande Prairie No. 1 Trevor Grant - Fire Chief (Primary) Chad Cormack, Deputy Fire Chief	X	

Tupper West

Type of Agency	Agency Name	Provided pecific Roles	Provided eneric Roles
RHA	Health Emergency Management BC, North (HEMBC) Owen Brokenshire, Health Emergency Management Specialist Mary Charters, Director	X	
Local Authority	Peace River Regional District (Zone B-C-D-E) Ryan Kirkham, Protective Services Manager Kevin Clarkson, GM of Community Services	Х	

April, 2025 Section 12.0 Page 6 of 20



BC Regional Health Services





Emergency Response Roles & Responsibilities

Health Emergency Management BC, North (HEMBC)

HEMBC is a program under the Provincial Health Services Authority (PHSA). HEMBC provides the expertise, education, tools, and support specifically for the BC Health Sector to effectively mitigate, prepare for, respond to, and recover from the impacts of emergency events; ensuring the continuity of health services. There is a HEMBC team in each BC health authority. HEMBC-North deals specifically with Northern Health.

Roles and responsibilities:

- Maintain a 24-hour emergency/on call contact number for notification and activation of the health system in Northern BC (appendix I)
- Notify/activate the appropriate Northern Health programs (i.e. Public Health, Acute Care, etc.) based on the nature of the incident/emergency event.

Northern Health (NH)

Northern Health is the regional health authority responsible for providing health services to 300,000 people over an area of 600,000 square kilometers in the province of British Columbia. Services include:

- Acute (hospital) Care
- Public Health (Protection, Preventive and Population Health services)
- Mental Health and Addictions
- Home and Community Care

In the event of a major emergency/disaster, Northern Health will provide health care services within its capacity, and will activate its emergency response management plan(s).

NH Roles & responsibilities - PREPAREDNESS (PRE-EVENT):

- Participate with industry, local authority and other partners in the development of their Emergency Response Plans as it relates to health authority roles and responsibilities:
- Participate in stakeholder training and exercises associated with activation of an Emergency Response Plan, in which Northern Health or HEMBC have a role and responsibility (as resources allow);

NH Chief Medical Health Officer approval: July 5, 2016 Rev. Oct 2023- HEMBC North







NH Roles & responsibilities - RESPONSE:

- Activate internal health emergency management plans related to ongoing provision of services (listed above);
- Provide acute care and emergency services at existing Northern Health hospitals/health centres;
- Work with BC Emergency Health Services (Ambulance) and the BC Patient Transfer Network to transport patients to the appropriate levels of care;
- Apply and enforce the Public Health Act, and associated regulations;
- Provide advice/information to the stakeholders on the existing or potential public health effects of an incident (including drinking water safety, air quality, environmental contaminants, communicable disease prevention, re-occupancy of evacuated areas, etc.);
- Provide advice/information on the best methods for monitoring health effects from an incident.
- Assist in development of (joint) messaging for public information on emergency incidents;
- Provide guidance to stakeholders and local authorities on public health considerations in operating reception and evacuation centres, and group lodging facilities

NOTE: British Columbia Emergency Health Services (BCEHS - Ambulance) remains independent of Northern Health. If an ambulance is required please contact BCEHS via 911 (or the local contact number, if 911 is not available in your area).

NH Chief Medical Health Officer approval: July 5, 2016 Rev. Oct 2023 - HEMBC North







Appendix I

NH/HEMBC- Contact information

- For Emergency events that require immediate connection with Northern Health, please call:
 - HEMBC on call number (24/7) **855-554-3622** (or 855-55-HEMBC)
 - HEMBC will notify/activate the appropriate Northern Health programs (i.e. Public Health, Acute Care, etc.) based on the nature of the event/ emergency. Please include this number in industry ERPS, for the use of permit holders in contacting Northern Health on an emergency basis.
 - Please do NOT include this number on Public Awareness Pamphlets for individual projects; the EMCR/Oil and Gas Commission's emergency number(s) is more appropriate, and the HEMBC 24/7 number is on record with those agencies.
- 2. For non-urgent requests related to Emergency Response Plans, or emergency exercise planning/information, contact HEMBC North Director Mary Charters, at:
 - 250-617-5288
 - HEMBC@northernhealth.ca
- 3. For Environmental assessment inquires and general government consultation questions pertaining to health please email the NH Office of Health and Resource Development at:
 - resource.development@northernhealth.ca

NH Chief Medical Health Officer approval: July 5, 2016 Rev. Oct 2023- HEMBC North



BC Local Authority



PEACE RIVER REGIONAL DISTRICT

1981 Alaska Avenue, Box 810, Dawson Creek, BC, V1G 4H8 Tel: 250-784-3200, Fax: 250-784-3201. www.prrd.bc.ca

Local Authority (Regional District)

Peace River Regional District (PRRD) has a formal Emergency Management Plan, which outlines the measures and sources of assistance that can be obtained to support emergency response efforts, within their jurisdictional boundaries. Upon request from the BC Energy Regulator (BCER), the Regional District may address emergency response capabilities, expectations and preparedness. If required or requested the Regional District may activate their emergency plan in order to achieve any of the following:

- Work with the BCER's Emergency Operations Centre (EOC) if established
 - With remote support as a cooperating agency through the BCER Liaison Officer and/or.
 - In the BCER operations section as an assisting agency
- Provide support and assistance to ensure notification of endangered area residents
 - Mass Alerting
 - Notifications
- Provide support to coordinate the delivery of Emergency Support Services (ESS) to evacuated or effected residents
- If necessary, declaration of a State of Local Emergency to enact legislative powers including but not limited to:
 - Issuance of Evacuation Alerts, Orders and Rescinds (persons, livestock, and animals);
 - Acquire or use any land or personal property considered necessary to prevent, respond or alleviate the effects of an event (following BCEMS Model); and
 - Control or Prohibit Travel in the region for safety
- Assist with public information service (joint, BCER, Industry and local government)
- Assist with the provision of building re-entry procedures jointly with utility providers, industry, Northern Health, and Technical Safety BC.

Revised July 17, 2023

diverse, vast, abundant,

April, 2025 Section 12.0 Page 10 of 20



AB Regional Health Services

Oil & Gas Industry Emergency Preparedness and Response

Alberta Health Services (AHS) - Environmental Public Health (EPH) roles and responsibilities in public health emergency preparedness and response to the oil and gas industry are outlined below. The provision of services during an emergency depends upon our assessment of legislative responsibilities, impact to services, and business continuity.

EPH will endeavor to:

- Participate with the Licensee in the development of their Emergency Response Plans as it relates to the Environmental Public Health Program's role and responsibility.
- Provide the AHS Zone Single-Point-of-Contact (SPOC) emergency phone number
 to enable the Licensee to notify and alert the Zone of an emergency. From the initial
 notification or alert, AHS emergency response will fan out to and coordinate with
 other AHS programs and facilities as necessary. The 911 EMS services remain
 independent of the Zone SPOC notification/alert process.
- Participate with stakeholders in preparedness training and exercises associated with a Licensee's simulated activation of an Emergency Response Plan in which EPH has a role and responsibility.
- Participate in public information sessions during the Licensee's Emergency
 Response Plan development process when appropriate and as resources allow.
- Provide guidance to stakeholders and local municipal authorities in identifying sites suitable for establishing and operating an evacuation centre and/or reception centre, including operational requirements.
- Provide guidance to stakeholders on substances that may affect public health in consultation with the Zone Medical Officer of Health (MOH), including Alberta Health Acute Exposure Health Effects for Hydrogen Sulphide and Sulphur Dioxide information.
- Conduct assessments, inspections and give regulatory direction, when appropriate, to ensure the requirements of provincial legislation and EPH program areas of responsibilities for public health protection and disease prevention are maintained.

Notify the Zone Medical Officer of Health of any incident affecting or potentially affecting other AHS programs or facilities. The Zone MOH will notify and coordinate emergency response in other program areas and facilities as necessary.

For more information, visit Safe Healthy Environments ahs.ca/eph







Oil and Gas Industry Emergency Preparedness and Response | 2

- Establish EPH emergency management operations, when appropriate, to support regional response efforts and liaise with the Government Emergency Operations Centre, Municipal Emergency Operations Centre and/or Industry Emergency Operations Centre, if needed.
- Assist the Zone Medical Officer of Health, local municipal authority, and Public Information/Communication officers in the development, issuance, and rescinding of public health, public evacuation and shelter-in-place advisories.
- Provide guidance to stakeholders on matters relating to evacuation of the public and/or public facilities, and the re-occupancy of those evacuated areas or facilities.
- Record and respond to health complaints or concerns from the public during and following an incident.
- Participate in stakeholder debriefings as necessary.

24 Hour Emergency Notification

Phone: 1-844-755-1788

Email: edp@ahs.ca

Use the phone number and email for all notifications across Alberta.

Contact us at 1-833-476-4743 or submit a request online at ahs.ca/eph.

PUB-0055-201711

©2017 Alberta Health Services, Safe Healthy Environments



This work is licensed under a <u>Creative Commons Attribution-Non-commercial-Share Alike 4.0 International license</u>. You are free to copy, distribute and adapt the work for non-commercial purposes, as long as you attribute the work to Alberta Health Services and abide by the other license terms. If you alter, transform, or build upon this work, you may distribute the resulting work only under the same, similar, or compatible license. The license does not apply to content for which the Alberta Health Services is not the copyright owner.

This material is intended for general information only and is provided on an "as is," "where is" basis. Although reasonable efforts were made to confirm the accuracy of the information, Alberta Health Services does not make any representation or warranty, express, implied or statutory, as to the accuracy, reliability, completeness, applicability or fitness for a particular purpose of such information.



AB Local Authority

ROLE OF PRIMARY LOCAL AUTHORITY

Initial contact for ERPs for the County of Grande Prairie No.1 is Trevor Grant, Fire Chief.

1) Trevor Grant, Fire Chief (Primary) Office: (780) 532-9727 Cell: (780) 882-2975 tgrant@countygp.ab.ca

2) Chad Cormack, Deputy Fire Chief Office: (780) 532-9727 Cell: (780)-933-6529 ccormack@countygp.ab.ca

3) Joulia Whittleton, Director Emergency Management Office: (780) 532-9722 Cell: (780) 933-8712

jwhittleton@countygp.ab.ca

4) Lee Brachman, Deputy Director Emergency Management

Office: (780) 532-9727 Cell: (780) 547-5651

lbrachmann@countygp.ab.ca

RESPONSIBILITIES

The Emergency Services Act requires the local authority of each municipality to be responsible for Emergency Response Planning and for the direction and control of their emergency response in their respective jurisdiction (Local Authority).

The Local Authority:

- Review the Site-specific Emergency Response Plan
- Initiates and manages the local municipal disaster services response
- Dispatches representative(s) to the Emergency Operations Centre, when established and as required
- If required, activates their municipal emergency operations centre and coordinates municipal activities at this centre
- Upon request, may assist with setting up and administration of the Reception Centre
- Assists with the arrangements of temporary accommodations for residents who have been evacuated
- Assist with the establishing, set up and maintenance of roadblocks as resources and staff training permit

Ensures that if available, local emergency services and resources are available to the level that they are trained



- Assists with off-site fire protection
- Activates the Emergency Public Warning System (EPWS) to alert public to life threatening hazards as required according to criteria set out by AEMA
- Supports operator in dealing with the emergency situation
- Initiate public protection methods as required
- If necessary, declares a local state of emergency to provide local authorities with special powers (mandatory evacuation, use of or entry into private property, conscription, demolition of private property structures for safety reasons, etc.)
- Establish a public information service, including use of the news media to inform and instruct the public of the emergency as required
- Assist as required with post incident damage assessment

RESOURCES

- The County has and may provide equipment and manpower in an offsite support role for fire protection and emergency mitigation. No County Fire personnel will work outside of their scope of practice. All County personnel will remain under immediate control and direction of a County Fire Officer or designate. The County Fire Service is manned 24 hours a day from the Clairmont and Dunes Fire Halls and will be dispatched through 911. All other stations in the County service area are Paid Response or Volunteer and will be dispatched through 911.
- The County has uniformed Level 1 Peace Officers. The RCMP performs all other policing, evacuation and notification duties. The Peace Officers would be mobilized at the request of the RCMP.
- The County has a large Public Works Department (divided into 3 zones), affiliated equipment and vehicles, and a staff that ranges from 140 in the winter to 240 in the summer. Manpower and equipment may be available to assist with roadblocks and county road closures depending on training and availability.

County of Grande Prairie Notification 24 hr. Phone Number 1-780-814-0280

For all Emergencies Dial 911

CHEMICALS AND DANGEROUS GOODS

The County of Grande Prairie Regional Fire Service has varying levels of Dangerous Goods Response. We provide primary response from 5 County owned stations to an Operations level, we also have 4 contracted partners that provide the same level of response for their respective areas. In a Dangerous Goods or hazardous chemical incident the County would only act in a support role to the primary responder.

The County has basic hazmat training and have foam units on all trucks. The County also has a mass spectrometer and can ascertain what type of chemicals are in the air.

April, 2025 Section 12.0 Page 14 of 20



12.4.5 Risk Assessment

Purpose

Risk assessment is a method for analyzing the probability and impact of failure on personnel, the public, the facility, the environment, and/or NorthRiver's reputation. Utilizing the Hazard, Risk and Vulnerability Assessment Matrix during the response to an emergency will help to ensure the incident is managed within NorthRiver risk tolerances.

The nature of the hazard(s) will influence the responses that are implemented by the Site Operations Section Chief and the Incident Commander. NorthRiver risk management during response to any incident is based on the following:

- Activities that present an extreme risk to workers, responders, and public must be limited to only
 situations where there is a potential to save endangered lives. Life Safety is the number one
 priority in every incident; this includes the safety of responders.
- Where there is no possibility to save lives, personnel should not attempt extreme risk operations.
- Activities to protect the environment or property are recognized as inherent risks to the safety of response personnel and actions should be taken to reduce or avoid these risks.

The Incident Commander is responsible for the overall coordination and direction of all activities and has the primary responsibility to evaluate the risk to on-site personnel with respect to the purpose and potential results of their actions in each situation. In situations where the risk to personnel is excessive, activities should be limited to defensive and protective operations.

The Site Operations Section Chief has the primary responsibility to evaluate the risk to on-site personnel with respect to the purpose and potential results of their actions in each situation. In situations where the risk to personnel is excessive, activities should be limited to defensive and protective operations.

Determining Risk

There are four steps in assessing the risk of an activity or process (see Hazard, Risk and Vulnerability Assessment Matrix):

- 1. Identify the risk or concern: Describe the risk or concern.
- 2. Assess the impact: The potential consequence of an incident is defined in terms of impact to people, the environment, operational assets, and the company's reputation.
- 3. Assess the Probability: The probability of occurrence is estimated in a range from Remote to Frequent.
- 4. Plot risk level and take action: Risk is categorized in terms of:
 - Critical the activities must stop until risk controls have been implemented to reduce the risk to a lower level.
 - High extensive risk controls must be immediately implemented.
 - Moderate risk controls are required.
 - Low some risk controls are justified.

April, 2025 Section 12.0 Page 15 of 20



Hazard Identification

NorthRiver Emergency Response Plans are British Columbia Energy Regulator's Emergency Management Regulation compliant 'all hazards' ERPs covering production operations. Although written and employing an 'all hazards' approach, the focus of these plans are upstream petroleum production operations.

Under Canadian Standards Association (CSA) Z1600-08, organizations are required to identify and monitor hazards that can have an impact on their operations or areas of responsibility. Organizations are mandated to consider the impact of natural, technological hazards and human-caused.

Hazards and risks for NorthRiver were identified and vulnerabilities were assessed by NorthRiver Emergency Response Planning section personnel using the Hazard, Risk and Vulnerability Assessment Matrix. As per the Risk Assessment process, staff evaluated information to facilitate the assignment of both probability and impact scores to the three categories of hazards. The combined scores were then plotted on the Risk Matrix so that the Risk Potential/Level could be determined, and appropriate ERP procedures developed where necessary.



Hazard, Risk and Vulnerability Analysis

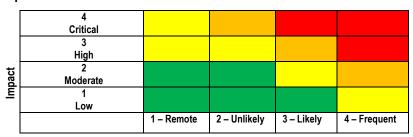
Step 1 – Assess the Impact

Level	People	Environment	Assets	Reputation
4 Critical	Fatality Long-term health impact Permanent disability Life altering injury or illness Evacuation of a facility and community Action from / activist involving weapons	Severe long-term environmental damage Wide-spread impacts to sensitive environments, wildlife and/or major bodies of water Significant off lease/site groundwater impacts	One-month facility/equipment outage Production, equipment, property, motor vehicle loss and or damage greater than \$10 million Terrorist attack/attempt	Action resulting in regulatory and/or legal prosecution or suspension of operations Prolonged national/international media attention Sustained widespread stakeholder public protect
3 High	Short term health impact Lost time injury or illness Evacuation of facility and immediate area Violent action from landowner/ activist	Severe short-term environmental damage Localized on lease groundwater impacts Significant off lease/site surface impacts	One-week facility/equipment outage Production, equipment, property, motor vehicle loss and or damage greater than \$1 million Substantial loss from theft/ vandalism	fines or punitive action Prolonged national/regional
2 Moderate	Medical aid injury or illness Restricted work/modified duties Evacuation of job site Specific threat from landowner/ activist	Moderate environmental damage No groundwater impacts Localised off lease/site surface impacts Immediate clean-up	Short term (less than one week) facility/equipment outage Production, equipment, property, motor vehicle loss and or damage greater than \$100,000 Major property crime	 Brief local public protest
1 Low	First aid injury or illness Implied threat from landowner/ activist	Minor environmental damage Localized on lease/site surface impacts	Negligible production loss Protection, equipment, property, motor vehicle loss and/or damage less than \$100,000 Minor property crime	No regulatory action anticipated Brief or no media attention Brief or no public attention

Step 2 - Determine the Probability

Level	Description	Likelihood
4 Frequent	Event is expected to occur in most circumstances.	One or more occurrences per year.
3 Likely	Event will probably occur at home time based on current practices.	One occurrence every 1-5 years.
2 Unlikely	Event should occur at some time based on current practices	One occurrence ever 5-20 years
1 Remote	Event could occur at some time based on current practices	One in the life of the facility

Step 3 – Determine the Risk Level



Probability

Impact x Probability = Risk Level

Step 4 - Risk Level

Critical – STOP activities. Work cannot proceed until risk is reduced to a lower level.

High – Extensive risk controls/mitigation measures must be implemented, and possible corporate approval is required to allow work to proceed. Efforts to reduce risk to a MEDIUM or LOW level should be undertaken.

Moderate- Risk controls/mitigation measures must be implemented to allow work to proceed. Efforts to reduce risk to a LOW level should be undertaken.

Low – Some risk controls/mitigation measures may be justified. Represents an acceptable level of risk.

Step 5 – Take Action

Ensure all Risks are understood, controlled, and communicated prior to starting work.



Hazard Risk Analysis

The chart below identifies the high-risk hazards that are present at the Tupper Main & Tupper West areas of Operations:

Risk Level	Hazards	Controls
Critical	None Identified	N/A
High	None Identified	N/A
	Fire: Industrial/Facility	Section 7.20 - Facility Fires
	Release: Chemical (e.g. produced water, cleaning agents)	Section 7.16 – Liquids Release
	Release: Gas (Sweet)	Section 7.11 Sweet Gas (Hydrocarbon) Release
	Release: Gas (Sour)	Section 7.10 Sour Gas Release
Moderate	Fire: Wildland/Grass/Forest	Section 7.19 – General Fire Response
	Flood	Sub-Section 7.30.4 - Floods
	Release: Liquid Product	Section 7.16 – Liquids Release,
		Section 7.17 Spill Contingency Plan
	Excessive Runoff from Facility	Section 7.17 Spill Contingency Plan
	Medical Event (Slips, Trips, First Aid, Heart Attack, etc.)	Section 7.27 – Injury/Fatality
	Transportation/Vehicle Incident: On Site	Section 7.24 – Transportation Incident
	Transportation/Vehicle Incident: Off Site Involving Company/Contractor Personnel	Section 7.24 – Transportation Incident
	Weather: Lightning Strike	Section 7.30.3 – Lightning
	Weather: Extreme Cold	Section 7.30.1 – Severe Weather Safety
	Threat or Suspicious Activity	Section 7.33 – Bomb Threat
Low	Disgruntled Landowner/Employee/Contractor/Vendor	Section 7.32 - Site Security
	Weather: Extreme Heat	Section 7.30.1 – Severe Weather Safety
	Wildlife Bites/Attacks	Section 7.31 – Animal Attacks
	Intruder/Squatter	Section 7.32 - Site Security
	Landslide	Section 7.30.5 – Seismicity
	Seismic Event: Earthquake	Section 7.30.5 – Seismicity
	Prolonged Power Outage	Refer to Business Continuity Plan



12.4.6 Hazard Summary

	Tupper Main & Tupper West Field Areas – Hazard Summary					
Hazardous Product	General Description	Health Effects	Downwind Evacuation	Fire	HPZ Public Safety (immediate precautionary measures)	
Methane	Often referred to as "sweet gas".Flammable.	Vapors may cause dizziness or asphyxiation without warning. Some may be irritating if inhaled at high		If tank, rail car or tank truck is		
Methane, compressed	 Lighter than air. At room temperature and standard pressure, methane is a colorless, odorless 	concentrations. Contact with gas or liquefied gas may cause burns, severe injury and/or	Large Spill Consider initial downwind evacuation for at least 800 metres (1/2 mile)	involved in a fire, isolate for 1600 metres (1 mile) in all directions; also, consider initial evacuation for 1600	100 m (330 ft)	
Natural gas, compressed	 gas. It is the simplest alkane and the main component of natural gas. 	frostbite. Fire may produce irritating and/or toxic gases.	(1/2 mile)	metres (1 mile) in all directions.		
Propane	 Extremely Flammable – will be easily ignited by heat, sparks or flames. Colourless Denser than air. 	Vapours may cause dizziness or asphyxiation without warning.				
Butane	 When odourized has a sulphur type odour. Non-odourized has a slight hydrocarbon odour. A by-product of natural processing and petroleum refining, it is commonly used as 	 Some may be irritating if inhaled at high concentrations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. 	Large Spill Consider initial downwind evacuation for at least 800 metres (1/2 mile)	If tank, rail car or tank truck is involved in a fire, isolate for 1600 metres (1 mile) in all directions; also, consider initial evacuation for 1600 metres (1 mile) in all directions.	100 m (330 ft)	
Liquified Petroleum Gas (LPG)	a fuel for engines, oxy-gas torches, portable stoves, and residential central heating. Propane is one of a group of liquefied petroleum gases (LPG).	Fire may produce irritating and /or toxic gases.				
Petroleum Crude Oil	 Brown to black. Viscous liquid. May contain or release poisonous hydrogen sulfide gas. Extremely flammable liquid and vapour 	 Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. 	Large Spill Consider initial downwind evacuation for at least 300 metres (1000 ft).	If tank, rail car or tank truck is involved in a fire, isolate for 800 metres (1/2 mile) in all directions; also, consider initial evacuation for 800 metres (1/2 mile) in all directions.	50 m (150 ft)	



	Tupper Main & Tupper West Field Areas – Hazard Summary				
Hydrogen Sulphide (H₂S)	 Flammable – explosive when mixed with air. Forms SO₂ when combusted. Rotten egg smell at low concentrations. Inhibits olfactory senses at high concentrations. Heavier than air. Will tend to disperse slower in sheltered or low-lying areas. Extremely toxic. 	Toxic; extremely hazardous. May be fatal if inhaled or absorbed through skin. Initial odour may be irritating or foul and may deaden your sense of smell. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire will produce irritating, corrosive and/or toxic gases.	Small Spill – Day Consider initial downwind evacuation for at least 0.1 km. (100 m) Small Spill – Night Consider initial downwind evacuation for at least 0.4 km (400 m) Large Spill – Day Consider initial downwind evacuation for at least 2.1 km (2100 m) Large Spill – Night Consider initial downwind evacuation for at least 5.4 km (5400 m)	If tank, rail car or tank truck is involved in a fire, isolate for 1600 metres (1 mile) in all directions; also, consider initial evacuation for 1600 metres (1 mile) in all directions.	100 m (330 ft)
Petroleum sour crude oil, flammable, toxic	 Rotten egg smell at low concentrations. Inhibits olfactory senses at high concentrations. Brown to black. Viscous liquid. May contain or release poisonous hydrogen sulfide gas. Extremely flammable liquid and vapour 	 Toxic; extremely hazardous. May be fatal if inhaled or absorbed through skin. Initial odour may be irritating or foul and may deaden your sense of smell. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire will produce irritating, corrosive and/or toxic gases. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. 	Small Spill – Day Consider initial downwind evacuation for at least 0.1 km. (100 m) Small Spill – Night Consider initial downwind evacuation for at least 0.2 km (200 m) Large Spill – Day Consider initial downwind evacuation for at least 0.5 km (500 m) Large Spill – Night Consider initial downwind evacuation for at least 0.7 km (700 m)	If tank, rail car or tank truck is involved in a fire, isolate for 800 metres (1/2 mile) in all directions; also, consider initial evacuation for 800 metres (1/2 mile) in all directions.	100 m (330 ft)

April, 2025 Section 12.0 Page 20 of 20