



## PRAIRIE SKY DISTRICT JET FUEL PIPELINE

## **EMERGENCY MANAGEMENT PLAN**

## **24-HOUR EMERGENCY LINE:**

1-800-360-4706

BC OGC 24-HOUR INCIDENT REPORTING LINE 1-800-663-3456

#### **CONTAINS CONFIDENTIAL INFORMATION**

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## **Redacted Copy**

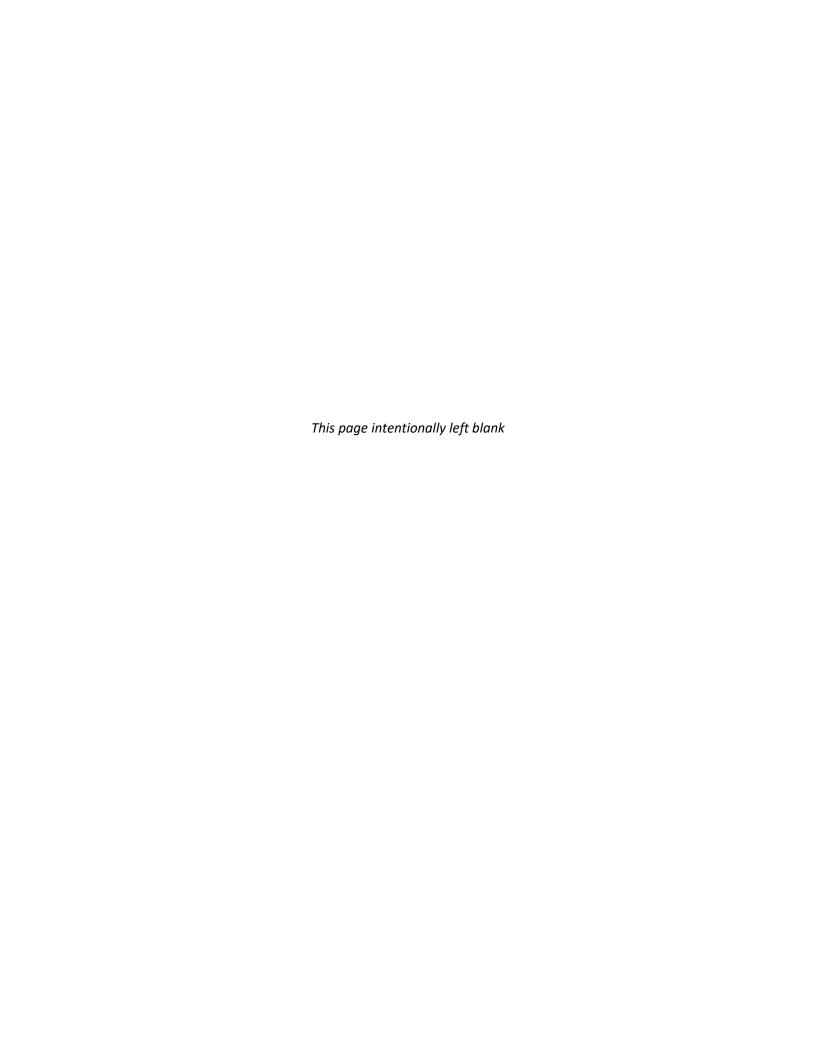


## **EMERGENCY RESPONSE PLAN**

#### ALL PEMBINA PERSONNEL HAVE THE RESPONSIBILITY AND AUTHORITY TO ACTIVATE THIS PLAN

Document	What does it contain?	Location
CORPORATE EMERGENCY RESPONSE PLAN (ERP)	General emergency response information relevant across the company. Contains details pertaining to:  Corporate Incident Classification Matrix  Regulatory reporting requirements  Public protection methods  Roles and responsibilities  Post incident actions	PART 1 BLUE TAB
DISTRICT/AREA OR SYSTEM SUPPLEMENTS	District/Area or System specific plans maintained separately from the Corporate ERP. Contains details specific to geographical operating areas or an individual operating system, including:  • Area contact information  • Support services and mutual aid  • Local Pembina owned response equipment	PART 2 <mark>GREEN TAB</mark>
ASSET SPECIFIC ADDENDUMS	Asset specific addendums include details specific to an individual site or type of operations within an operating area, such as:  • Site description and overview of operations  • Technical data  • Maps	PART 3  YELLOW TAB  Where Required
SUPPORTING DOCUMENTS	Additional documents maintained independently from the ERP that provide additional supporting details, such as:  • EPZ Occupant Data (Confidential copies only)  • Spill control points  • Site specific procedures  • Fire response plans  • Office evacuation plans  • Supplemental plans for newly constructed or acquired assets	PART 4 ORANGE TAB

Note: Where large data sets exist, Supporting Documents may be housed in separate binders.





## PEMBINA PIPELINE CORPORATION

# CORPORATE EMERGENCY RESPONSE PLAN (CANADA)

## 24-HR EMERGENCY RESPONSE LINE 1-800-360-4706

Throughout this document, some details have been removed from the publicly posted version for the protection of private and/or confidential information. This may include names, phone numbers, addresses, equipment details, locations of surface installments and information collected during consultation.

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## **PREFACE**

#### **Purpose**

The purpose of this Corporate Emergency Response Plan (**Corporate ERP**) is to provide guidance and direction to Pembina personnel to ensure effective response actions during emergencies, to aid in the prevention of injury to employees, emergency responders, and members of the public, and to minimize impacts to the environment, property, and infrastructure.

#### **Application**

The Pembina Corporate ERP applies to Pembina Pipeline Corporation and each of its subsidiaries and/or entities operating within Canada (excluding marine operations), including but not limited to: Pembina Pipeline Corporation, Plateau Pipeline Ltd., Pouce Coupé Pipe Line Ltd., Alberta Oil Sands Limited, Pembina Gas Services, Pembina Energy Services Inc., Pembina NGL Corporation, Pembina Prairie Facilities Ltd, Pembina Empress NGL Partnership, Younger Extraction Plant Inc., 2354890 Alberta Ltd., Veresen NGL Pipeline Inc., Veresen Midstream Limited Partnership, Aux Sable Limited Partnership, Vantage Pipeline US LP, Cochin Canada LLC, PKM Canada Limited, PKM Canada GP Inc., PKM Canada Limited Partnership, PKM Canada Services Inc., PKM Canada Terminals GP ULC, PKM Canada (Jet Fuel) Inc., PKM Canada Rail Holdings GP Limited, PKM Canada North 40 Limited Partnership, PKM Canada Edmonton North Rail Terminal Limited Partnership, PKM Canada Edmonton South Rail Terminal Limited Partnership and Aux Sable Canada Ltd.

These entities are collectively referred to as **Pembina** in this plan.

#### Scope

The Corporate ERP serves as Pembina's foundational emergency management plan and includes emergency response information relevant to Canadian operations and is applicable to all sites and pipeline systems operated by Pembina, within Canada.

The Corporate ERP has been developed in partnership with Pembina stakeholders and response personnel to ensure the document contains helpful and relevant information. The Corporate ERP has been prepared to ensure compliance to applicable regulations and reporting requirements.

The Corporate ERP is a component of Pembina's Operating Management System (OMS) Framework and works in conjunction with other OMS documentation, including the *Operations and Maintenance Manual*.

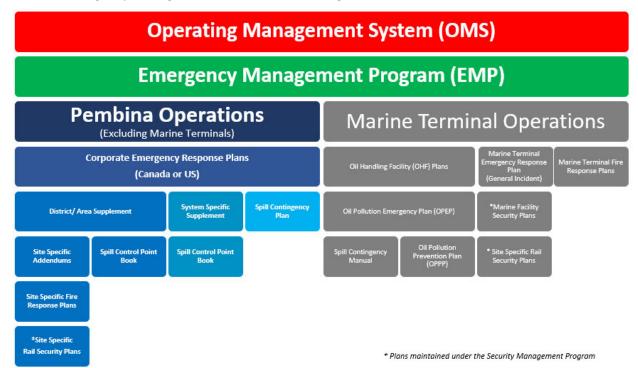
The Corporate ERP also works in conjunction with Area Plans, and their applicable asset specific details and information. These plans are reviewed and maintained independently from the Corporate ERP.

Responders are responsible to review and familiarize themselves with the contents of the Corporate ERP, as well as the applicable Area Plan(s), applicable to their working area(s).

#### All Pembina personnel have the responsibility and authority to activate this Plan.

#### **Document Navigation**

Pembina Emergency Management documentation is organized as follows:



#### Introduction

Pembina operations include liquid transportation pipelines, gas gathering and processing infrastructure, and midstream and marketing services within Canada and into the U.S.

Pembina is committed to protecting the health and safety of workers, the public, and safeguarding the environment and property. Pembina places a strong focus on emergency management through its **Emergency Management Program (EMP)** which includes detailed standards and processes for continued emergency management activities including planning, prevention, preparedness, and response.

Emergency Management includes, among others:

- Hazard identification and risk assessment
- Emergency response planning
- Emergency response training and exercises
- Stakeholder liaison, public awareness, and engagement
- Incident response and public protection
- First Responder liaison, awareness, and engagement
- Participation in area Mutual Aid groups

The Pembina emergency response framework is based on the **Incident Command System (ICS)** – ICS principals, implementation methodologies, roles and responsibilities, and associated tools and guides to facilitate incident response activities, are discussed throughout this document. Pembina utilizes a competency-based training and exercise framework to ensure Pembina's emergency response personnel have appropriate qualifications to perform their duties, as required. Additional information on Pembina's EMP, including governing standards, procedures, and tools, is available on **The Pipeline**.

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#### Distribution Record

#### Internal Distribution

The Corporate ERP is readily available to employees in electronic format on *The Pipeline*. Personnel are encouraged to use *The Pipeline* to access the Corporate ERP.

Distribution will be maintained with the applicable Area/System Plan(s).

#### **External Distribution**

The Corporate ERP is distributed as a stand-alone document to the following external agencies:



Other applicable government / regulatory agencies will receive a copy of the Corporate ERP in electronic format with applicable Area/System Plan(s) enclosed, as required. Distribution lists for these agencies will be maintained with the applicable Area/System Plan(s).

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#### **Revision Record**

The Emergency Management Team, in coordination with Pembina Field Offices/Facilities, shall be responsible for the maintenance of the Corporate ERP. The Corporate ERP will be reviewed, validated, and updated as required, and on a regular basis to ensure compliance with applicable regulations.

Revised plans will be distributed to noted plan holders who are responsible for destroying the outdated plans and advising the Emergency Management Team once complete.

The Corporate ERP documents revision records for a period of five years, in accordance with applicable regulations and the Pembina document retention policy.

Date	Version	Revision Details (reference type of revision, i.e., annual or regular)
June 2015		Updated to include Saskatchewan addition. Reformatting and plan enhancements submitted with September 2015 DDS 2734
January 2016		Update to Emergency Response Organization Chart, inclusion of security related roles and responsibilities, updates to/inclusion of the bomb threat, suspicious package, and facility search hazard response guidelines. Update ECC references to SPCC.
April 2016		Update to Distribution List and Corporate Call Down/Notification (Section 1)
January 2017		Corporate Plan review – no amendments required at this time
September 2017		Addition of US regulations in preparation of Vantage Pipeline Operations.
February 2018	1.0	Review of entire Corporate Plan and revisions throughout.
February 28, 2019	1.0	Corporate Plan review – no amendments required at this time
April 9, 2019	1.1	Annual Review and Update included minor revisions specific to OGC regulations and guidance.
April 26, 2019	1.2	Regular Update to the table of Contents and the addition of a Glossary
February 15, 2020	2.0	Annual Review and Update completed, and re-development of the Corporate Emergency Management Plan completed.
May 1, 2020	2.1	Minor Revision and Update to include the Corporate Incident Classification Matrix and the regulatory Levels of Emergency.
August 25, 2020	2.2	Minor Revision and Update to include PKM entities.
January 31, 2021	3.0	Annual Review and Update completed. Removed all U.S. references.
April 15, 2021	3.1	Minor Revision to include Aux Sable Canada Ltd. and a revision to the Corporate Incident Classification Matrix.
November 1, 2021	3.2	Regular Update to entities in Application section
January 15, 2022	4.0	Annual Review and Update completed.

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## **Revision Request Form**

If you find any errors in this Plan, or if you become aware of regulatory or industry procedural changes, please document the information and forward to Pembina's Emergency Management Team for inclusion in the next update.

Send to: Pembina Pipeline Corporation E-mail: Emergency.Management@pembina.com

4000, 585 – 8 Avenue S.W. Calgary, AB T2P 1G1

PLAN REVISION IDENTIFICATION INFORMATION			
PLAN NAME:	VISION IDENTIFICATION INFO	RIVIATION	
VERSION NUMBER/DATE:	SECTION NUMBER:	PAGE NUMBER:	
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### 1.0 INCIDENT ONSET AND PLAN ACTIVATION

All incidents, accidents, or events that occur during Pembina's operations have the potential to impact the safety and wellbeing of people, property, the environment, or Pembina's finances or reputation. This includes events occurring at, near, or with the potential to affect, Pembina owned and/or operated assets or pipeline facilities. It is critical for all potential or verified emergencies to be quickly assessed and addressed to ensure the appropriate emergency response actions are taken and resources mobilized, as required.

#### All Pembina personnel have the responsibility and authority to activate this Plan.

Pembina requires all potential emergencies be reported to the **Sherwood Park Control Centre (SPCC)**, and to the appropriate regulatory body, as required, in accordance with the Corporate ERP. Pembina has resources across its operational areas which can be dispatched to provide direction and support to personnel during an emergency.

Additional details on plan activation and subsequent response actions are provided in the following sections of this document.

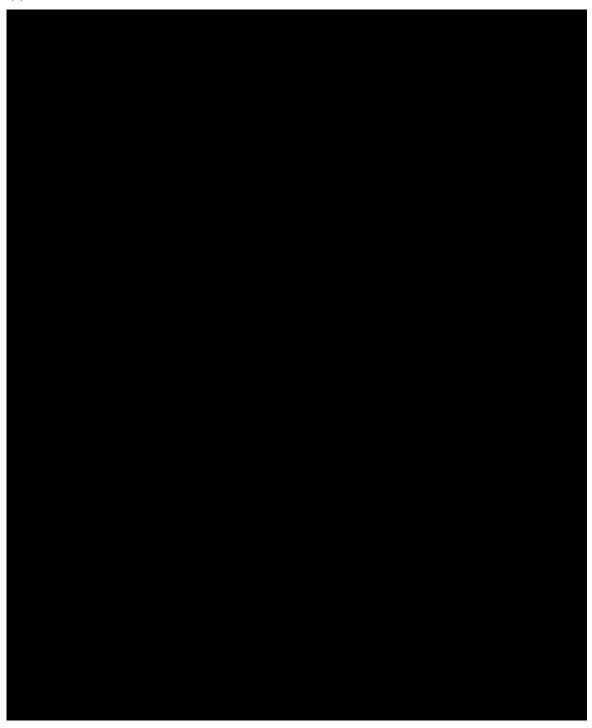
Refer to the applicable Area Plan(s) for asset specific information, emergency contact details, local response/safety equipment and resource listings.

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#### 1.1 Activation Process Overview

The following diagram has been adapted from the *EM Activation Process*\_and details how to activate the Pembina Emergency Management System. This process is applied to all **Business Units (BUs)** within Pembina. Refer to *EM Activation Process* on *The Pipeline* for further details, including process maps and role specific actions and checklists. For area specific contacts and information, refer to the applicable Area Plan(s).



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## 1.2 Event Notification and Validation

The detection of an incident may occur through several mechanisms including notice by the Sherwood Park Control Centre (SPCC), during routine operations and maintenance activities and/or monitoring by the operator, or by notification from a regulator, Third Party operator / contractor, or member of the public.

Once a potential incident is detected, efforts to validate the event begin immediately. Depending on the number and type of indicators, the SPCC may initiate shut down procedures remotely to prevent possible escalation or other compounding factors. Subsequent visual confirmation may be required, and resources are dispatched accordingly.

Additional details and processes related to event notification are available in EM Activation Process.

#### 1.3 Activation and Establishment of the ICP

Once an incident has been verified, the Field On-Call must activate the Plan and establish the Incident Command Post (ICP), as appropriate. The established Incident Commander (IC) will be in charge and responsible for the overall coordination and direction of response activities until one of the following occurs:

- Transfer of Command, and the IC is relieved;
- The IC is relieved by an external authority who will assume command (i.e., a regulator, local authority);
- Incident is stood down.

Additional details and processes related to initiating an ICS response, conducting an incident size-up, and activating the ICP are available in the EM Activation Process and the ICP Operating Guide.

Additional details about ICP roles and responsibilities are available in Section 3.0 Emergency Response Roles and Responsibilities of this document and respective ICP Role Guides.

## 1.4 Activating the CEOC

If the IC determines the incident warrants additional support, they may request activation of the Corporate Emergency Operations Centre (CEOC). The Emergency Operations Manager (EOM) will identify the required Corporate Incident Support Team (CIST) members, as required. If the CEOC is not activated, select corporate resources may still provide support upon request.

Additional details about CEOC roles and responsibilities are available in Section 3.0 Emergency Response Roles and Responsibilities of this document, and CEOC Role Guides.

## 1.5 Security Threat Response Assessment

Depending on the incident, there may be security or criminal elements to be assessed. The EOM, in conjunction with Corporate Security, will initiate a security threat assessment, as required.

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## 1.6 Corporate Incident Classification

Pembina's Operating Management System (OMS) Standard 1.1, Hazard Identification and Risk Assessment outlines requirements, considerations and processes to systematically identify and evaluate the collective hazards and/or potential hazards and risks associated with Pembina's Programs that can affect the safety and security of personnel or the public, the safety and security of the pipeline, protection of property and environment, or ongoing and reliable operation of Pembina's owned and operated assets.

The Corporate Incident Classification is identified using the Risk Assessment Matrix Guidelines identified in this Standard. These guidelines consider the potential likelihood and severity associated with an identified hazard to classify an incident.

#### 1.6.1 Corporate Incident Classification Matrix

#### STEP 1 - Estimate the Severity Score:

Severity Score	Descriptor	Health & Safety	Environmental and Regulatory	Financial	Operational	Reputation
5	Extreme	Multiple loss of life and/or serious long-term health implications as a result of the company's actions.	Major long term (10+ years) widespread environmental incident. Significant long-term mitigation required. Loss of license to operate.	Earnings or Capital Impact greater than \$1 Billion	Major break with lengthy response time and extensive damage.	Sustained negative campaign against the company. Investment withdrawal. Business critical stakeholders withdraw their support (lenders, insurers, institutional investors, governments) International coverage.
4	Major	Single loss of life and/or long- term occupational health implications as a result of the company's actions.	Long term (5-10 years) environmental damage. Offsite release with significant pollution/contamination. Regulator suspends asset	Earnings or Capital Impact between \$100M & \$1B.	A critical event with a long recovery period which stretches plans to the limit and requires significant management effort to endure. Major failure, quickly controlled, major damage.	Long-term negative focus and/or sustained concerns raised by multiple key stakeholders. Prolonged area attention/difficult to resolve.
3	Moderate	Lost time injury and/or Restricted duty injury, and/or Short-term occupational illness	Onsite release outside designed containment (1-5 years). Significant cleanup efforts required. Non-compliance resulting in enforcement.	Earnings or Capital Impact between \$10M & \$100M.	A significant event which can be managed through existing processes. Major failure, quickly controlled, minor damage.	Medium-term negative focus. Short term credibility concern/quickly resolved. Brief area attention.
2	Minor	Medical Aid, and/or Minor occupational illness	Onsite release within designed containment (1 year). Minor cleanup efforts required. Reportable to regulator.	Earnings or Capital Impact between \$1M and \$10M	Impact of event requires actions that can be managed through existing processes. Minor failure, quickly controlled, loss.	Short-term negative focus. Isolated incidents/resolvable.
1	Insignificant	First aid or report only (no injury)	Controlled or minor non- reportable release.	Earnings or Capital Impact less than \$1 Million.	Impact of event can be absorbed through normal activity. Minor Incident.	Minimal impact on public. No stakeholder attention.

#### STEP 2 - Assess the Likelihood of Escalation Score:

Likelihood Score	Descriptor	Description
E	Almost Certain	The incident is uncontrolled and there is little chance of bringing the hazard under control in the near term. External assistance is required to bring the event under control. The event is escalating, or it is highly likely the event will escalate.
D	Likely	Imminent and/or intermittent control is possible in the near term using internal and external resources. It is likely the incident will escalate further.
C Possible		Incident is under control or control is probable in the near term. It is possible that the incident will escalate further.
В	Unlikely	The incident is controlled, or control is imminent. It is unlikely that the incident will escalate further.
А	Rare	The incident is controlled, or control is imminent. Escalation is highly unlikely. There is no chance of additional hazards.

#### STEP 3 - Determine the Corporate Incident Classification:

Severity Score	5	M	M	н	VH	VH
	4	M	M	н	н	VH
	3	L	M	M	Ξ	Н
	2	L	L	M	M	М
	1	L	L	L	L	М
		Α	В	С	D	E

#### Likelihood of Escalation Score

#### Low (L)

- Mitigations and/or management activities properly designed and operating.
- Routine procedures in place to address abnormal operations.
- No further mitigation required.
- Activation of the Field Incident Management Team (FIMT) is not required.
- Notification to the Corporate Incident Support Team (CIST) is not required.

#### Medium (M)

- Mitigations and/or management activities in place but may not be routine.
- No further mitigation required where controls are verified to be working as intended.
- Incident shall be reported to the District Manager or the Senior Manager, Engineering or Operations if controls are not deemed to be working as intended.
- Activation of the Field Incident Management Team (FIMT) may be required.
- Notification to the Corporate Incident Support Team (CIST) is required. Activation of the CIST may not be required.

#### High (H)

- Incident Response continues even after controls and treatment strategies are in place.
- Further treatments and controls need to be evaluated considering the specifics of the incident.
- Activation of the Field Incident Management Team (FIMT) is required.
- Notification to the Corporate Incident Support Team (CIST) is required. Activation of the CIST may not be required.

#### Very High (VH)

- Incident Response continues even after controls and treatment strategies are in place.
- Further treatments and controls are required.
- Activation of the Field Incident Management Team (FIMT) is required.
- Notification to the Corporate Incident Support Team (CIST) is required. Activation of the Corporate Incident Support Team (CIST) is required.

Note: The Corporate Incident Classification Matrix is based on the Organization's accepted level of risk tolerance outlined in OMS1.1 - Operating System Hazard Identification and Risk Assessment Standard

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## 1.7 Regulatory Notifications

Details on required immediate (verbal) and subsequent regulatory reporting are available in <u>Section 5.0</u> Regulatory Support and Reporting.

For interprovincial or cross-border incidents, ensure you review the reporting requirements for all involved jurisdictions, including applicable Federal notice/reporting requirements.

#### 1.8 Incident Priorities

The priorities by which Pembina responds to an incident are constant regardless of the incident.



#### 1.9 Incident Site Worker Protection

The Incident Commander (or Safety Officer, if activated) is responsible for ensuring appropriate safety measures are in place to protect site workers and Pembina response personnel. Responsibilities also include hazard assessment, anticipating, detecting, and correcting unsafe situations, and if required, assigning a Security Officer to monitor security aspects of the response effort at the field level.

Additional details are available in <u>Section 3.0 Emergency Response Roles and Responsibilities.</u>
Responders are also encouraged to seek further information from relevant Pembina personnel / **Subject Matter Experts (SME)**.

## 1.10 Emergency Management Tools

#### 1.10.1The Pipeline

The Pipeline is Pembina's intranet site. It hosts a variety of information including corporate contacts and directories, regional and asset information, site drawings and diagrams, equipment inventories, functional/ service area information and associated tools and resources.

#### 1.10.2 Geocortex

**Geocortex** is Pembina's internal GIS Application for viewing and searching Pembina's assets and locations, as well as viewing spatial information including roads, water bodies, foreign pipelines and facilities, First Nations boundaries, environmental layers, and other datasets. **Geocortex** is available through **The Pipeline**.

Responders are encouraged to use Geocortex in response activities.

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#### 1.10.3 Live Asset / Technical Data

Live operational, asset, and technical data is also available on *Geocortex* and readily available to responders during incidents. Basic asset and technical data are also available in the applicable Area-, Site-, or System-specific Plan(s).

#### 1.10.4Emergency Response Equipment Inventories by Location

Responders are encouraged to use *The Pipeline* or the District/Area Plan to review Pembina's Emergency Response Equipment Inventories by location.

#### 1.10.5 Response Guides

The following guides are available in electronic format on *The Pipeline*; hardcopies are available in the CEOC and at ICP locations:

Document Name	Description
Initial On-Site Actions	Provides initial on-site actions for first responders
Activation Procedure	Provides supplemental information about Pembina's activation process.
	Provides supplemental information on roles and responsibilities associated
ICP Operating Role	with the ICP and include:
Guides	ICP Operating Guide
	ICP ICS Organization Guides
	Provides supplemental information on roles and responsibilities associated
<b>CEOC Operating Role</b>	with the CEOC and include:
Guides	CEOC Operating Guide
	CEOC ICS Organization Guides
ERAC Guide	Provides supplemental information on ERAC, including how and when to
ENAC Guide	activate an ERAP.
SPCC Guide	Provides guidance to Sherwood Park Control Centre (SPCC) personnel on
SPCC Guide	their roles and responsibilities during an emergency.
	Designed for use at a dangerous goods incident, occurring on a highway or
ERG2020	railroad, to provide guidance to aid first responders for quickly identifying
	the hazards associated with material(s) involved in an incident.

## 1.11Downgrading the Incident

Pembina will make the decision to downgrade the regulatory Level of Emergency as appropriate, in consultation with the applicable regulator(s).

The Corporate Incident Classification may be reviewed and amended throughout the incident by the Incident Management Team.

Refer to <u>Section 8.0 Post Incident and Recovery Actions</u> for further information on downgrading and/or standing down the incident.

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#### 2.0 PREPAREDNESS ACTIVITIES

#### 2.1 Training Requirements

The objective of staff training is to ensure incident response personnel have the knowledge, skills, and abilities to initiate and sustain the appropriate response actions. Employees and permanent contractors assigned duties in the ICS organization receive training to ensure they are competent and/or appropriately qualified for those duties. At a minimum, it is Pembina's expectation these individuals are familiar with the Corporate ERP, applicable supplemental plan(s) for their area(s) of operations, as well as the authority and accountabilities of their potential response role(s). Pembina Emergency Management training consists of the following:

- Awareness of the Corporate ERP and supplemental plan(s);
- Incident Command System (ICS) training, including roles and responsibilities;
- Identification of public protection measures during an emergency; and
- Review of communication methods and processes (internal/external).

Pembina considers training a continuous process – on an annual basis, Pembina will review emergency response performance with applicable personnel to verify training objectives are met, and to implement corrections and/or changes to the program and procedures for ongoing effectiveness.

Pembina has established emergency management specific training pathways for Pembina responders. These pathways are additional to the training individuals may require as part of their substantive position in the company. For example, an Operations Supervisor or Foreman will need operations training appropriate to their day-to-day job. However, as Supervisors will likely assume a role during emergencies, they will also require emergency management training for their assigned emergency role.

Local first responders are considered out of scope of Pembina's training framework, however, they are provided emergency response information and/or plans, as required or requested. In addition, routine liaison / engagement activities are conducted to ensure they are familiar with Pembina's operations and have a general awareness of response requirements.

Further information on training and exercise requirements is available in the appropriate **Emergency Management Program (EMP)** documents. Training records are available in **Pembina's Learning Management System (LMS).** 

### 2.2 Exercise Requirements

Pembina conducts a broad range of emergency response exercises to test and validate plans, evaluate responder competency and/or qualification, and assess response capability, capacity, and resource allotment.

Exercises are designed to test objectives and identify gaps in plans, processes, procedures and training; ensuring ongoing continuous improvement to the **Emergency Management Program (EMP)**. Exercises are scheduled on an annual basis; type and frequency are established according to applicable regulatory requirements and best practices. Exercise reports are produced following each session and are maintained by the Emergency Management Team. Further information is available in the appropriate EMP documents.

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#### 2.3 Stakeholder Liaison and Public Awareness

Pembina regularly conducts liaison and public awareness / engagement activities to educate stakeholders on Pembina's assets and operations including applicable hazards; planning zones; public protection measures; preparedness and emergency response actions; as appropriate to the area, as required.

The scope of liaison / public awareness activities varies – frequency and type of activity is dependent on jurisdictional requirements, asset characteristics (e.g., Province, or sour operations, respectively), and stakeholder type. Stakeholders may include local first responders, government or regulatory agencies, public officials and/or other agencies, and public or affected parties within identified planning zones. Stakeholders may also include excavators / contractors – see Pembina's Damage Prevention and Public Awareness (DPPA) Program on *The Pipeline* for details.

Information may be communicated through consultations (in person or telephone), project-specific newsletters, public information packages, and open house(s), as appropriate. Additional information is available in various Program Standards on *The Pipeline*.

#### 2.4 Emergency Management Program (EMP) Administration

Pembina has a robust EMP which establishes the requirements for development, implementation, maintenance, and evaluation processes of Emergency Management activities. The EMP establishes the framework for emergency preparedness, planning, response and recovery activities. The Corporate ERP and supplemental Plan(s) are supported and administered as per defined program standards. For additional details on program administration, see the appropriate EMP documents.

#### 2.4.1 Program Documentation and Records

The EMP sets out the minimum requirements for program documentation and records management. This includes processes for EMP document and record identification, preparation, maintenance, storage, security, preservation, retrieval and disposition.

#### 2.4.2 Management of Change (MOC)

Administrative Changes (changes to a policy, standard, or practice) within the Emergency Management Program will follow the guidance outlined in EP7.15 *Management of Change*.

#### 2.4.3 Mutual Aid Agreements

Pembina participates in several mutual aid and / or other emergency services agreements. See the appropriate EMP documents for further details. Where developed, copies of specific mutual aid agreements will be referenced in the applicable Plan(s), as required.

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## 3.0 EMERGENCY RESPONSE ROLES AND RESPONSIBILITIES

This section outlines the roles and responsibilities for personnel who will be assigned specific emergency response tasks in the event of an emergency. Although these emergency response tasks are written specifically for certain response positions, they are not intended to be a closed list of duties that might be required. Tasks are the responsibility of the Incident Commander (IC) and/or Section Chief(s) until tasks are assumed or delegated to additional roles as an incident becomes larger expanding the structure.

All response personnel must clearly understand their assigned duties. Response personnel who are assigned duties must communicate with their designated alternate to coordinate the to transfer duties.

#### 3.1 Incident Command System

Pembina's emergency response management approach is based on the Incident Command System (ICS) to ensure a coordinated and organized response to emergencies. ICS is a standardized emergency management system specifically designed to allow users to adopt and integrate an organizational structure equal to the complexities and demands of single or multiple / concurrent incidents without being hindered by jurisdictional boundaries.

The ICS structure is an effective means of coordinating emergency response, resources, and personnel from multiple responding organizations and agencies. Pembina emergency response personnel are trained in ICS principles and practices.

A list of ICS Forms and other documentation tools can be found in Appendix - Forms.

#### 3.1.1 Unified Command Organization

Pembina will enter Unified Command (UC), as required. If it is determined that UC is needed, Incident Commanders representing agencies or jurisdictions that share responsibility for the incident manage the response from a single Incident Command Post (ICP). A Unified Command allows agencies with different legal, geographic, and functional authorities and responsibilities to work together effectively, without affecting individual agency authority, responsibility, or accountability.

## 3.2 ICS Organization Charts

The ICS structure can expand or contract to meet the needs of the incident. Emergency response teams are activated depending on the scope and complexity of the incident, corporate incident classification, regulatory level of emergency, and anticipated resource needs. The scale and complexity of the emergency can vary from requiring one person (the IC) or the entire Incident Management Team (IMT), including both the Field Incident Management Team (FIMT) and the Corporate Incident Support Team (CIST) to resolve the incident. Regardless of the size, the IC is responsible for the overall management and response of the emergency.

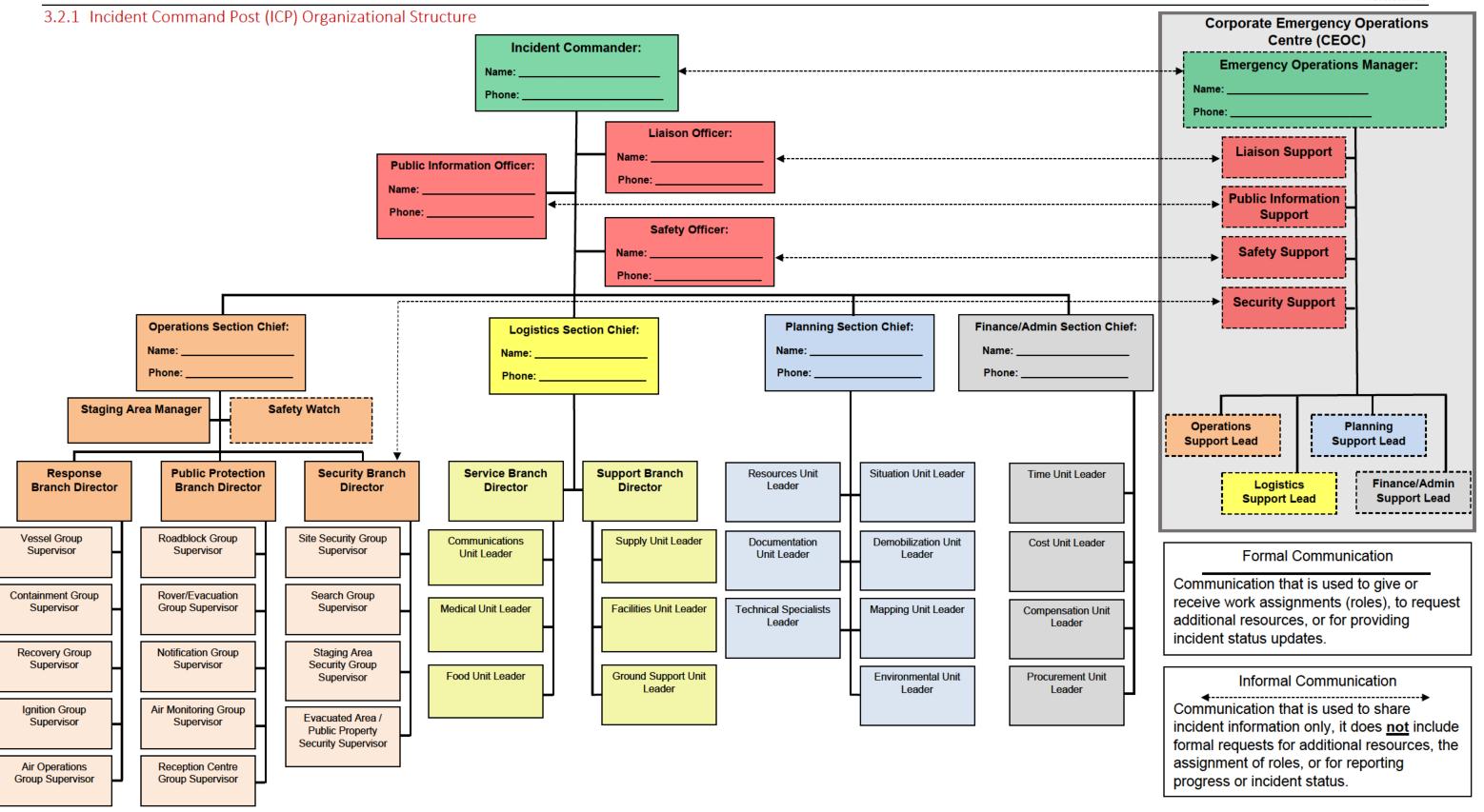
See the following pages for expanded ICS organizations at Pembina.

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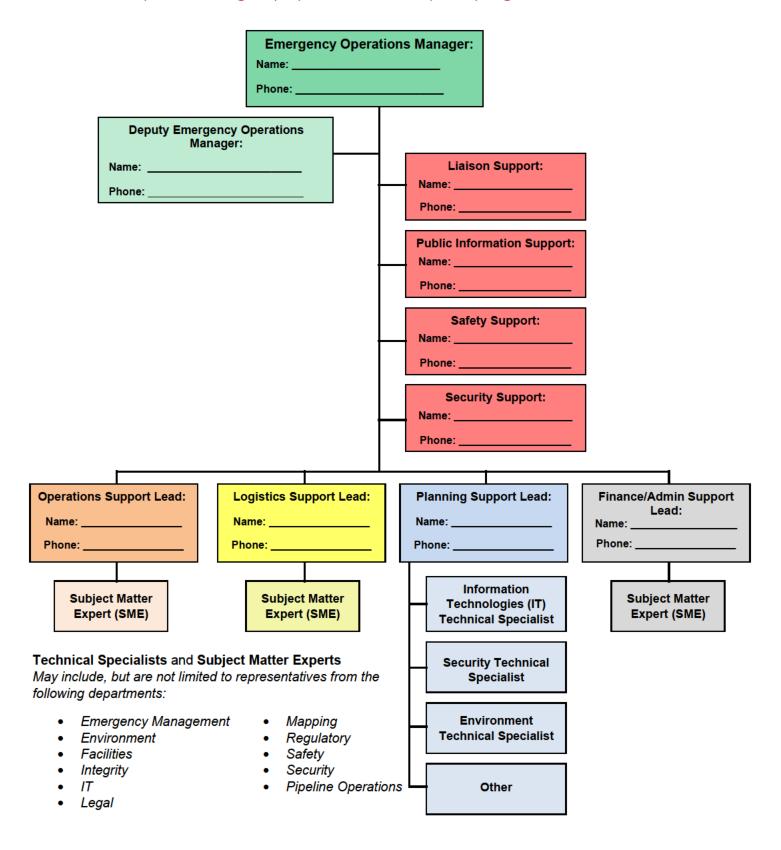
## CORPORATE EMERGENCY RESPONSE PLAN (CANADA) Version Date: January 2022 Version: 4.0

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#### 3.2.2 Corporate Emergency Operations Centre (CEOC) Organizational Structure



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## 3.3 ICS Roles and Responsibilities

Members of the **Incident Management Team (IMT)** which will be activated as required, depending on the nature and severity of the situation. Where appropriate, third parties may fill or supplement these roles, as required.

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#### 3.3.1 Incident Commander

5.5.1 Illicident Com		Commander			
Potential Designates	District Manager Senior Area / Plant Manager Area Supervisor Area / Plant				
CEOC Counterpart	Emergency Operations M	anager			
Forms / Tools	_	201 Incident Briefing Form, 202 Incident Objective, 209 Incident Status, 214a Individual Activity Log			
R	lole	Responsibilities			
The Incident Commander (IC) is responsible for providing direction and guidance to the Field Incident Management Team (FIMT).		Ensure initial notifications of the incident are performed and initiate the opening of the ICP.			
_	rall requirements of the	Determine the Corporate Incident Classification			
incident and determine direction for the FIMT t		Develop and prioritize incident objectives.			
response. This is accomplished by identifying the necessary Command and General Staff functions required to deliver a response, setting priorities, identifying limitations and constraints,		Develop and manage the ICP organizational structure including sourcing additional support to deliver the incident objectives.			
developing response ob critical information req		Ensure plans are developed to respond to and recover from an incident.			
	vork (tasks) to Command	Monitor progress of the action plan against the objectives.			
and General Staff, and a The IC may have one or		Ensure regular information updates are provided to the CEOC.			
report directly to the IC have the same qualification	C. The Deputy IC must ations as the IC and can	Ensure internal and external communications are accurate.			
assume some or all the responsibilities of the IC.		If necessary, act within a Unified Command structure for the incident.			
Digital versi	-	<i>uide</i> for further details. <i>line</i> . Hard copies are available in the ICP.			

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#### 3.3.2 Liaison Officer

	Liaison Officer			
Potential Designates	Field / Plant Personnel or design	nate		
Reports to	Incident Commander			
CEOC Counterpart	Liaison Support Lead			
Forms / Tools	201 Incident Briefing Form, 202	Incident Objective Form,		
FOITIIS / TOOIS	214a Individual Activity Log			
	Role	Responsibilities		
The Liaison Officer serves	as the primary contact for	Conduct regulatory notifications as required by the incident.		
	ntatives of other agencies to	Report regulatory Level of		
provide input on incident	related matters.	Emergency, using appropriate matrix, where required (AB/BC).		
External stakeholders, and/or representatives from agencies and organizations coordinate through the Liaison Officer. These stakeholders will vary according to the type of incident but may include regulators, emergency services, municipal, provincial and federal jurisdictions, and private entities.  The Liaison Officer will represent their concerns and objectives to the Field Incident Management Team (FIMT) throughout the planning process.  The Liaison Officer coordinates closely with the Liaison Support Lead at the Corporate Emergency Operations Centre (CEOC). If requested by the IC, the Liaison Officer may delegate some of the regulatory notification responsibilities of the ICP to the Liaison Support Lead.		Coordinate all activities of external stakeholders, agencies and organizations present in the ICP.		
		Represent the concerns and objectives of all external stakeholders, agencies and organizations to the FIMT throughout the planning process		
		Record all correspondence with external stakeholders, agencies and organizations.		
		Provide regular updates to all external stakeholders, agencies and organizations.		
		Maintaining a list of assisting and cooperating agencies and agency representatives		
Digital version	See complete <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.			

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## 3.3.3 Public Information Officer (PIO)

3.3.3 Public Illioilliat	Public Information	n Officer	
Potential Designates	Field / Plant Personnel or de		
Reports to	Incident Commander	esignate	
<u> </u>		Land (DIC)	
CEOC Counterpart	Public Information Support	, ,	
Forms / Tools	201 Incident Briefing Form,		
	Role	Responsibilities	
	ficer (PIO) is responsible for	Advise the Incident Commander on all	
developing and releasing i		public information matters relating to	
incident to the media, to t	• •	the incident.	
personnel, Pembina emplo	•	Maintain regular contact with the	l
appropriate agencies and	organizations.	Public Information Support (PIS) Lead	
Within the Dembine erron	izational structure, most of	in the CEOC.	
_	izational structure, most of	Identify key information that needs to	
the Communications Team	•	be communicated externally and	
Office in Calgary and it is unlikely that an experienced		internally.	
	ICP. Consequently, much	Act as the point of contact for all public	
of the work of the PIO will	•	information issues from external	
Corporate Emergency Ope	erations Centre (CEOC) with	agencies and organizations involved in	
the PIO acting as a point o	f contact within the ICP.	the response.	
   If		Ensure the Incident Commander	
If required, the Incident Co	• •	verifies the accuracy of information	
Communications Strike Te	• •	produced by the PIS.	
- ,	e. Once deployed at the site,	Disseminate authorized messages	
this Strike Team will repor		across the response using the most	
Commander and take on t	he role of the PIO.	effective means available.	
	See complete Role Guide fo		
Digital version	is available at <i>The Pipeline</i> . H	lard copies are available in the ICP.	

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## 3.3.4 Safety Officer

Safety Officer							
Potential Designates	Area Safety Advisor						
Reports to	Incident Commander						
CEOC Counterpart	Safety Support Lead						
Forms / Tools	201 Incident Briefing Form, 202 Incident Objectives, 206 Medical Plan, 208 Safety Plan, 214a Individual Activity Log, Hazard Assessment / 215a Safety Analysis						
Role		Responsibilities					
The Safety Officer develops and recommends measures to ensure personnel safety and occupational health of not only response workers, but also the public. This is done using		Assess the health and safety of personnel impacted by a response and advise the Incident Commander on issues regarding safety.					
Pembina's normal safety p	_	Identify and mitigate hazardous situations.					
information in the Plan.  They anticipate, recognize, assess, and control hazardous and unsafe conditions or situations. If the incident requires response personnel to conduct activities outside routine Pembina activities, the Safety Officer will develop mitigation strategies to ensure the continued safety of response personnel and members of the public.  If necessary, they develop a specific Incident Safety Plan to cover all activities relating to the response. They may also be required to review and approve the Medical Plan.		Develop and recommend measures for assuring personnel and public safety.					
		Assess the strategies and tactics to be implemented and develop safety strategies to ensure the safety of responders.					
		If necessary, develop an incident specific Safety Plan.					
		Exercise emergency authority to stop and prevent unsafe acts.					
		Investigate accidents that have occurred within the incident area.					
		Staff and organize the safety function to ensure the safety of responders and the public					
See complete <i>Role Guide</i> for further details. Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.							

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## 3.3.5 Operations Section Chief

Operations Section Chief						
Potential Designates	Operations / Plant Foreman or Supervisor					
Reports to	Incident Commander					
CEOC Counterpart	Operations Support Lead					
- / <del>-</del> -	201 Incident Briefing Form, 204 Assignments List, 214a Individual Activity					
Forms / Tools	Log, 215 Operational Planning Worksheet					
	Role	Responsibilities				
The Operations Section Chief (OSC) is responsible for		Developing and organizing the				
managing all tactical operations at an incident. They will		Operations Section to deliver the				
identify, assign and supervise all the resources needed		objectives considering operational				
to accomplish the incident	objectives.	efficiency, personnel safety and				
-	•	adequate Span of Control.				
During the planning proces		Managing and ensuring the safety of	$\Box$			
_	nd tactics required to execute	tactical operations.				
the Incident Action Plan (IA	AP), requests or releases	Developing the operations portion of				
resources and monitors / r	eports progress against the	the IAP.				
incident objectives.		Supervising the execution of the				
The exact structure of the	Operations Section will you	operations portions of the IAP.				
	Operations Section will vary	Requesting additional resources to				
according to the needs of t		support tactical operations.				
every objective developed	•	Approving the release of resources				
Section would be established to deliver the objective.		from active operational assignments.				
	Section can grow quite large	Maintaining close contact with the				
	st maintain an effective Span	IC, Command Staff, Operations				
	n3/max7) and this may require	personnel and other agencies involved in the incident.				
	ns Section. This can be done					
	Groups, Strike Teams, Task	During the execution of the IAP, the				
_	. Each of these organizational	OSC may make or approve changes to the plan but must inform the	l —			
elements will have a super	visor appointed to it, who	Incident Commander immediately of				
reports only to their respe	ctive supervisor.	these changes.				
If required the OSC may a	ctivate the following subunits to	assist in the execution of objectives:	<u> </u>			
		-				
<ul> <li>Staging Areas: These and deployment.</li> </ul>	re established for the temporar	y location of available resources prior to				
	ch: Established to ensure the sa	fety of the public and stakeholders				
		ent and clean-up activities in the event o	of a			
spill or release.						
<ul> <li>Security Branch: Established to conduct tactical security activities such as security of evacuated</li> </ul>						
areas.		•				
Each of the Branches may activate additional groups to meet the needs of the incident if required.						
See complete <i>Role Guide</i> for further details.						

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#### 3.3.6 Logistics Section Chief

Logistics Section Chief					
Potential Designates	Field or Plant Personnel				
Reports to	Incident Commander				
<b>CEOC Counterpart</b>	Logistics Support Lead				
Forms / Tools	General: 201 Incident Briefing Form, 214a Individual Activity Log, 215 Operational Planning Worksheet	As required / large scale incident: 205 Incident Radio Communications Plan, 206 Medical Plan, 208 Safety Plan			

The Logistics Section Chief (LSC) is responsible for providing facilities, services, people, and material in support of the incident. They participate in the development and implementation of the Incident Action Plan (IAP) and supervise the branches and units within the Logistics Section.

Role

The Logistics Section may be divided into two Branches:

Service Branch: Responsible for providing medical, IT, communications and food to the responders during the response.

Support Branch: Responsible for the sourcing and delivery of equipment, material and workers, and the establishment / maintenance of facilities to support the response.

Branches are normally established to assist with span of control. When Branches are established, the Branch Director reports directly to the LSC.

#### Service Branch:

**Communications Unit:** Deals with all communications issues across the response.

Responsibilities

- Ensures IT systems are operational.
- Establishes a link with the CEOC.
- Develops a 205 Communications Plan if required for the IAP.

Medical Unit: Provides medical services to the responders.

- Provides first aid and transportation to injured responders
- Develops a 206 Medical Plan if required for the IAP.

Food Unit: Provides food to the responders.

 Food and water to all responders, in the ICP, the field and in camps.

#### Support Branch:

**Supply Unit**: Orders the resources required to deliver the strategies and tactics.

- Orders all resources required to keep the response going.
- Stores supplies for the incident.
- Maintains an inventory of supplies.

Facilities Unit: Responsible for the running of all facilities associated with the response.

- · Locates and lays out the ICP and camps.
- Maintains the ICP and camps
- Provides security at the ICP and camps.

**Ground Support Unit:** Provides transportation, fuel and equipment maintenance services.

- Maintains resource equipment.
- Provides fuel for responders.
- Provides transportation services for responders.

See complete Role Guide for further details.

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## 3.3.7 Planning Section Chief

3.3.7 Planning Sec	tion Chief					
Planning Section Chief						
Potential Designates	Field or Plant Personnel					
Reports to	Incident Commander					
CEOC Counterpart	Planning Support Lead					
	General: Later in the Incident:					
	201 Incident Briefing Form,		202 Incident Objectives,			
Forms / Tools	207 Organizational Chart,		203 Organizational Assignments List,			
1011113 / 10013	214a Individual Activity Log,		204 Assignments List, 205 Incident Radio			
	215 Operational	Planning	Communications Plan, 206 Medical Pl	an,		
	Worksheet	208 Safety Plan				
Role			Responsibilities			
		Ensuring the Plar	nning cycle is adhered to.			
The Planning Section C	hief (PSC)		displaying situation status.			
coordinates all plannin		_	anaging all incident -related data and			
the ICP. They facilitate	-	intelligence.				
process and produce the			including documenting, assembling,			
Briefing Form and subs		printing and distribution of the IAP.				
Action Plan (IAP) which	•	Developing alternative strategies.				
objectives validated by		Providing a primary location for technical specialists				
,		assigned to an incident.				
They also provide esse		Providing documentation services.				
regarding the organiza	•	Tracking and identifying resource shortages.				
assignments, and resor		Maintaining resource status.				
planned operational pe	eriod.	Preparing the Demobilization Plan				
One of the most impor	tant functions of	_	tion may activate the following if requi	red:		
the (PSC) is to look beyond the current		Situation Unit: Collects, prepares and displays				
and next operational period and		information about the response.				
anticipate potential pro	anticipate potential problems or		Documentation Unit: Prepares the Incident Action			
events. Technical experts may		Plan and maintains all incident documentation.				
supplement the planning section to		Demobilization Unit: Develops the plan for the safe     and orderly anyward may amont of recourses used in				
assist with the develop	assist with the development of plans.		and orderly onward movement of resources used in the response.			
The Planning Section is busy through		Mapping Unit: Generates incident-specific mapping.				
the entire incident life-cycle.		Environment Unit: Advises on environmental impacts				
Therefore, the (PSC) may activate		and develops environment related plans.				
additional units to assist in the delivery		Resources Unit: Establishes the check-in procedure for				
of the planning function.		an incident and tracks the status of key resources.				
			pecialist Unit: Provides an initial location	n		
		for supporti	ng Technical Specialists.			
See complete Role Guide for further details.						
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### 3.3.8 Finance / Administration Section Chief

Finance and Administration Section Chief				
Potential Designates	Field Administration or			
Reports to	Incident Commander	,		
CEOC Counterpart	Finance and Administra	ation Support Lead		
Forms / Tools	201 Incident Briefing For Planning Worksheet	orm, 214a Individual Activity Log; 215 Operational		
Ro	ole	Responsibilities		
The Finance and Admir		Managing all the financial aspects of an incident.		
financial and cost analy incident.		Providing financial and cost-analysis information, as requested.		
There are four function	•	Ensuring compensation and claims are addressed.		
the Finance and Admin	ted, the Finance and	Gathering pertinent information from briefings with other support agencies.		
Administration Section Chief (FASC) will need to perform all these functions:  Time Unit: responsible for ensuring the accurate recording of daily personnel time, compliance with specific agency time		Developing an operating plan for the Finance and Administration Section to organize/staff section supply and support needs.		
		Determining the need to set-up and operate an incident commissary.		
recording policies, and operations if established	managing commissary	Meeting with other support Agency Representatives, as needed.		
Procurement Unit: res		Maintaining regular contact with the CEOC on finance matters.		
financial matters perta contracts, leases, and f	ining to vendor	Ensuring all incident related documents are properly prepared and completed		
Compensation/Claims	Unit: responsible for	Briefing the Command and General Staff on incident related financial issues needing attention or follow-up.		
made against Pembina		Provide input to the Incident IAP.		
Cost Unit: ensures the proper identification of all equipment and personnel requiring payment, records all cost data, analyzes and prepares estimates of incident costs, and maintains accurate records of incident costs.		In the case of multi-jurisdictional incidents where unified command is established, representatives for other agencies may be assigned to work in the Finance and Administration Section. Coordination with these agencies and agreement of how information will be tracked is essential.	rom	
Digital vers	See complete <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.			

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# 3.3.9 Staging Area Manager

	Staging A	rea Manager		
Potential Designates	Field or Plant Personnel, C	Contract Safety or Security Company		
Reports to	Operations Section Chief			
Forms / Tools	_	201 Incident Briefing Form, Incident Action Plan, 211 Check-In List, 214a Individual Activity Log, Public Information Scripts		
ı	Role	Responsibilities		
The Staging Area Mana	ger establishes the	Establishing the staging area.		
Staging Area and subseresources within it that	t are positioned and	Coordinating and managing resources in the staging area.		
awaiting tactical assign On the direction of the	ment.  Operations Section Chief,	Providing briefings to the resources at the Staging Area covering:		
the Staging Area Manager organizes resources into Strike Teams and Task Forces. The Staging Area Manager provides briefings on the current situation and if necessary, allocated tasks to Strike Teams and Task Forces prior to deployment.  The Staging Area Manager will work closely with		<ul> <li>The current situation.</li> <li>Likely tasks to be executed.</li> <li>Safety procedures to be used</li> </ul>		
		Organizing resources into Strike Teams and Task Forces.		
		Ensuring Resources are checked into the incident.		
other members of the	Command and General	Ensuring resources arriving at the staging area match those that have been ordered.		
management of resour efficiently. This include	ces is conducted	Ensuring the security at the site is maintained.		
<ul> <li>Enabling the check-in procedure on behalf of the Planning Section Resources Unit.</li> <li>Acting as a goods receiving station on behalf of the Logistics Section Resources Unit.</li> </ul>		Providing regular updates to the Operations Section Chief on the status and availability of resources in the staging area.		
Digital vers	See complete <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.			
Digital Vels	ion io available at the tipe			

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### 3.3.10Safety Watch

3.3.103alety Water				
		y Watch		
Potential Designates		Contract Safety or Security Company		
Reports to	Operations Section Chief	Operations Section Chief		
Forms / Tools	201 Incident Briefing Forn Public Information Scripts	n, Incident Action Plan, 214a Individual Activity L	og,	
	Role	Responsibilities		
The Safety Watch Lead operations carried out	er ensures the tactical during the response are	Ensuring the safe conduct of tactical operations.		
safety procedures. This	ce with normal Pembina s may require: entations to third parties	Ensuring tactical operations are conducted in accordance with normal Pembina safety procedures and / or the Incident Safety Plan.		
<ul> <li>involved in the response.</li> <li>Reviewing certifications.</li> <li>Ensuring mutual aid partners and contractors procedures meet or exceed Pembina procedures.</li> <li>The support and observation of tactical actions being conducted to ensure they are being completed safely.</li> </ul>		Ensuring enough safety personnel are available to support and observe tactical operations.		
		Providing orientations to response personnel.		
		Reviewing certifications.		
Identification and m present at an incide  More than one person	_	Ensuring mutual aid partners and contractors conduct activities in a manner that meets or exceeds Pembina's safety procedures.		
·	of Safety Watch during a Vatch Leader will assign Groups within the	Identification and mitigation of hazards during the response.		
response to ensure act safely as possible.	ivities are conducted as	Providing regular updates to the Operations Section Chief on the safe conduct of operations during the response.		
The Safety Watch Leader or any person assigned to them has the authority to stop any unsafe acts.		Stopping unsafe acts.		
Digital vers	-	uide for further details. line. Hard copies are available in the ICP.		

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# 3.3.11Response Branch Director

	Response Branch Directo	or	
Potential Designates	Field or Plant Personnel, Contract SME		
Reports to	Operations Section Chief		
Forms / Tools	201 Incident Briefing Form, Incident Ac Public Information Scripts	tion Plan, 214a Individual Activity L	og,
	Role	Responsibilities	
on-site response activit	Director implements and coordinates all ties.  e Operations Section Chief, the	Implementing any response and recovery measures required.	
Response Branch Direct Response Branch and a an effective span of co	tor determines the structure of the activates functional Groups to maintain atrol. These Groups may include: ates and supervises the activity of all	Recommending strategies and tactics to the Operations Section Chief on how to	
_	the containment and recovery of	respond to an incident	
based containment act		Ensuring all response and recovery activities are conducted in a safe manner.	
recovery-based activiti			
<b>Ignition Group:</b> If ignition criteria are met, implements the ignition of any plume.		Maintaining an effective structure for the Response Branch.	
	Coordinates the deployment of all air copter, drone) in support of the	Managing the information	
contracted third partie	y be conducted by Pembina personnel, s, regulatory bodies, local authorities rs. The Response Branch Director may	gathered by the Groups within the Response Branch.	
responding to an incide		Coordinating and directing the	
implementation of pub	Director is also responsible for plic protection measures at the site. Sures could be implemented by:	activities of the Groups within the Response Branch.	
Activating a Public P	p within the Response Branch. rotection Branch, reporting to the to deliver the required public	Providing regular updates to the Operations Section Chief on the status of response activities.	
Digital versi	See complete Role Guide for furth ion is available at The Pipeline. Hard cop		

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# 3.3.12Vessel Group Supervisor

	Vessel Gro	up Supervisor	
Potential Designates	Field or Plant Personnel, Contract SME		
Reports to	Response Branch Director		
Forms / Tools	201 Incident Briefing Forn Public Information Scripts	n, Incident Action Plan, 214a Individual Activity L	og,
	Role	Responsibilities	
The Vessel Group Supervisor coordinates all on water activity to contain and clean a spill to reduce the environmental impact. They may have to coordinate this activity over a wide geographical area incorporating multiple control points.		Ensuring the safe conduct all on water activity.	
		Implementing strategies and tactics for the defined control points.	
The Vessel Group Supervisor implements the defined strategies provided by the Asset Specific Plan, Control Point Data Sheet and any additional strategies developed by the Response Branch Director.  The Vessel Group may contain a large number of resources that operate over a dispersed area. Consequently, the management of the Vessel Group structure and maintaining an efficient span of control, is a key element in successfully delivering the role.  The Vessel Group Supervisor ensures that proper decontamination procedures are followed.		Coordinating all Vessel Group activity.	
		Providing regular updates to the Response Branch Director on the progress of Vessel Group activities.	
		Managing the Vessel Group structure and ensuring an effective span of control is maintained throughout the response.	
		Ensuring proper decontamination procedures are followed.	
See complete <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.			

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# 3.3.13Containment Group Supervisor

	Containment (	Group Supervisor		
Potential Designates	ial Designates Field or Plant Personnel, Contract SME			
Reports to	Response Branch Director			
Forms / Tools		201 Incident Briefing Form, Incident Action Plan, 214a Individual Activity Log, Public Information Scripts		
	Role	Responsibilities		
The Containment Grou	ip Supervisor coordinates d-based containment	Ensuring the safe conduct all Containment Group activity.		
activities. In the event waterway the Contain will coordinate and sup	ment Group Supervisor	Implementing strategies and tactics for the site(s).		
anchors and booms at control points. This will require coordination with the Vessel Group Supervisor.  The Containment Group Supervisor implements the defined strategies provided by the Asset Specific Plan, Control Point Data Sheet and any additional strategies developed by the Response Branch Director.  The Containment Group may contain a large number of resources that operate over a dispersed area. Consequently, the management of the Containment Group structure and maintaining an efficient span of control, is as key element in successfully delivering the role.		Coordinating all Containment Group activity.		
		Providing regular updates to the Response Branch Director on the progress of Containment Group activities.		
		Managing the Containment Group Structure and ensuring an effective span of control is maintained throughout the response.		
		Ensuring proper decontamination procedures are followed and contaminated equipment is delivered to decontamination crews before leaving the site		
See complete <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.				

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# 3.3.14Recovery Group Supervisor

	Rec	overy Group Supervisor		
Potential Designates	Field or Plant Per	rsonnel, Contract SME		
Reports to	Response Branch Director			
Forms / Tools		201 Incident Briefing Form, Incident Action Plan, 214a Individual Activity Log, Public Information Scripts		
Role		Responsibilities		
The Recovery Group Su	ments all clean-	Ensuring the safe conduct all clean-up and recovery activities.		
up and recovery-based activities. They may have to coordinate this activity over a wide geographical area incorporating multiple locations.		Implementing strategies and tactics defined by the Response Branch Director.		
		Coordinating all Recovery Group activity.		
The Recovery Group Supervisor implements the strategies provided by the Response Branch Director. The management of the Recovery Group structure and maintaining an efficient span of control, is as key element in successfully delivering this role.  The Recovery Group Supervisor ensures that all necessary decontamination procedures are established and correctly utilized across all response activities.		Providing regular updates to the Response Branch Director on the progress of Recovery Group activities.		
		Managing the Recovery Group structure and ensuring an effective span of control is maintained throughout the response. this may include establishing:  • Waste Unit • Shoreline Units • Decontamination Unit • Site Access Control Unit		
		Ensuring all necessary decontamination procedures are implemented at relevant incident locations.		
See complete <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.				

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# 3.3.15 Ignition Group Supervisor

	Ignition Group Supervisor			
Potential Designates	Field or Plant Personnel, Contract SME			
Reports to	Response Branch Director			
Forms / Tools	201 Incident Briefing Form, Incident Act Public Information Scripts	ion Plan, 214a Individual Activity L	og,	
	Role	Responsibilities		
	pervisor coordinates and implements the fignition criteria are met.	Ensuring the safe conduct ignition.		
<ul> <li>Note:</li> <li>If an immediate threat to human life exists and there is not sufficient time to evacuate the IIZ, PAZ or EPZ, qualified onsite personnel are authorized to ignite the release.</li> <li>The decision to ignite will be fully supported by Pembina as long as the decision-making process has been followed and documented.</li> <li>However, if time permits, consultation with the Operations Section Chief, Incident Commander, Emergency Operations Manager, and Regulator should be conducted.</li> </ul>		Ensuring only qualified personnel ignite the release.		
		Documenting all activities and decisions made by the Ignition Group.		
		Providing regular updates to the Response Branch Director on the progress of Ignition Group activities.		
	See complete Role Guide for furthe	er details.		
Digital vers	Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.			

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# 3.3.16Air Operations Group Supervisor

	Air Operations Group Supervisor			
Potential Designates	es Field or Plant Personnel, Contract SME			
Reports to	Response Branch Director	Response Branch Director		
Forms / Tools		201 Incident Briefing Form, Incident Action Plan, 214a Individual Activity Log, Public Information Scripts, 220 Air Operations Summary		
	Role	Responsibilities		
the deployment of all a	oup Supervisor coordinates hir assets (fixed wing, upport of the response.	Coordinating all Air Operations Group activity.		
<u>-</u>	up Supervisor establishes s from which air assets can	Scheduling of air asset use.		
operate. The specialist nature of the Air Operations Group means vendors providing air assets provide their own fuel and maintenance. The Air		Monitoring of air asset utilization.		
elements of the Group	will oversee these logistical . ervisor schedules flights and	Establishment and maintenance of locations from which air assets can operate.		
advises the Response E utilization of air assets.	Branch Director on the			
The Air Operations Supervisor does NOT conduct air traffic control. Only suitably qualified third-party personnel can conduct this task.		Providing regular updates to the Response Branch Director on the progress of Air Operations Group activities.		
	See complete <i>Role Guide</i> for further details.			
Digital versi	ion is available at <i>The Pipeline</i>	P. Hard copies are available in the ICP.		

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### 3.3.17 Public Protection Branch Director

	Public Protection	on Branch Director	
Potential Designates	Field or Plant Personnel /	Contract SME / First Responder or Local Authori	ty
Reports to	Operations Section Chief		
Forms / Tools	201 Incident Briefing Forn Public Information Scripts	n, Incident Action Plan, 214a Individual Activity L	.og,
F	Role	Responsibilities	
The Public Protection E responsible for implem protection measures d	enting all public uring a response. In	Determining the public protection measures required to ensure the safety of the public and stakeholders impacted by the incident.	
the Public Protection B	e of the Public Protection	The planning and implementation of public protection measures which may include the establishment of:  • Roadblocks.	
This may include settingroups:		<ul> <li>Air monitoring.</li> <li>Notification of the public and stakeholders.</li> </ul>	
Roadblock Group: Control access into the EPZ.  Rover and Evacuation Group: Locate personnel within the EPZ and assist with the evacuation of residents.  Notification Group: Notify impacted residences and businesses to provide public safety instructions.		<ul> <li>Ensuring the impacted area is clear of members of the public.</li> <li>Providing evacuation assistance to persons impacted by the incident.</li> </ul>	
		<ul> <li>Coordination of activities at reception centres established to house displaced members of the public.</li> </ul>	
Air Monitoring Group: air quality readings to t Branch Director.	Acquiring and providing the Public Protection	Maintaining an effective structure for the Public Protection Branch.	
with and coordinating	up: Responsible for liaising activities at a reception	Managing the information gathered by the Groups within the Public Protection Branch.	
centre for evacuated personnel.  The Public Protection Branch Director reports to the Operations Section Chief in the ICP who will provide tasks for the branch to perform.  The Public Protection Branch can contain many people so maintaining an effective span of control is essential.		Coordinating and directing the activities of the Groups within the Public Protection Branch.	
		Providing regular updates to the Operations Section Chief on the status of public protection measures across the response.	
Digital vers	•	uide for further details. line. Hard copies are available in the ICP.	

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# 3.3.18Roadblock Group Supervisor

	Roadblock Group Supe	rvisor		
Potential Designates	Field or Plant Personnel / Contract SME / First Responder or Local Authority			
Reports to	Public Protection Branch Director			
Forms / Tools	201 Incident Briefing Form, Incident Public Information Scripts	201 Incident Briefing Form, Incident Action Plan, 214a Individual Activity Log, Public Information Scripts		
	Role	Responsibilities		
Roadblock personnel are responsible for maintaining assigned roadblock positions, controlling access into an area and communication with transients. If necessary, they may also act as Air Monitoring stations.  The locations of the roadblocks are determined by the Public Protection Branch Director. However, they may delegate the identification of roadblock locations to the Roadblock Group Supervisor.		Coordinating and directing the activities of personnel within the Roadblock Group.		
		Controlling access into and out of any controlled areas.		
		Ensuring the logging of details for all personnel entering and leaving the controlled area.		
A key role is to record and report who is entering and leaving the controlled area. Impacted personnel inside the controlled area will be informed by the Notification Group so it is essential to confirm if they have left. Other personnel will require access into the controlled area such		Providing regular updates to the Public Protection Branch Director on personnel who have entered of left the controlled area.		
as emergency services or response personnel.  The recording of entry into, and out of, controlled areas is vital in ensuring the safety of the public and responders.		Providing Air Monitoring results to the Public Protection Director as required.		
See complete <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.				

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# 3.3.19Rover/Evacuation Group Supervisor

Rover/Evacuation Group Supervisor				
Potential Designates	Field or Plant Pers	Field or Plant Personnel / Contract SME / First Responder or Local Authority		
Reports to	<b>Public Protection</b>	Public Protection Branch Director		
Forms / Tools		201 Incident Briefing Form, Incident Action Plan, 214a Individual Activity Log, Public Information Scripts		
Role		Responsibilities		
The Rover and Evacuat to assigned locations to	•	Coordinating and directing the activities of personnel within the Rover and Evacuation Group.		
and provide public safe	•	Assisting those who need evacuation assistance.		
Difficult terrain and large areas may require the Rover and Evacuation Group to utilize helicopters or drones to locate members of the public in controlled areas. If necessary, they will provide assistance with evacuation.		Clearing locations where telephone contact cannot be made.		
		Locating and notifying transients and seasonal/casual area users of the emergency and appropriate actions.		
Locating, evacuating ar personnel in controlled	_	Monitoring activity within the Emergency Planning Zone (EPZ).		
task to ensure public safety. Therefore, information needs to be accurately recorded and passed frequently to the Public Protection Branch Director.		Posting notices on empty vehicles or buildings notifying occupants of an evacuation in progress.		
		Providing regular updates to the Public Protection Branch Director on the status of personnel within the EPZ.		
See complete <i>Role Guide</i> for further details.				
Digital versi	ion is available at 7	The Pipeline. Hard copies are available in the ICP.		

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### 3.3.20Notification Group Supervisor (Telephoners)

	Notification Group Su	upervisor (Telephoners)	
Potential Designates	Field or Plant Personnel /		
Reports to	Public Protection Branch Director		
Forms / Tools	201 Incident Briefing Form	n, Incident Action Plan, 214a Individual Activity L	og,
Forms / Tools	Notification Scripts, Public Information Scripts		
F	Role	Responsibilities	
	Supervisor is responsible obers of the public located	Coordinating and directing the activities of personnel within the Notification Group.	
ways.  Through automated Through manual cal		Ensuring members of the public are provided the appropriate public protection messages.	
Personnel who may require notification may include:		Logging and tracking the status of resident notifications throughout the response.	
<ul> <li>Residents.</li> <li>Schools / School Bus Transportation.</li> <li>Businesses including other oil and gas companies, rail, logging, farming etc.</li> <li>Public Facilities and Recreation Areas.</li> <li>Urban Centres (contact local authority to coordinate).</li> <li>Trappers, Guides / Outfitters.</li> <li>Grazing Lease / Allotment Holders.</li> <li>Note: Information pertaining to residents within</li> </ul>		Providing regular updates to the Public Protection Branch Director on the status of residents within the impacted area. This includes:  Those requiring assistance.  Residents who cannot be contacted.  Residents who are not in the area.  Residents who are at or moving to a reception centre.	
and subsequent evacua	re notification of an event ation are contained in the sset Specific Plan marked	Maintaining contact with residents throughout the response.	
Digital vers	See complete <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.		

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# 3.3.21Air Monitoring Group Supervisor

	Air Monitoring Group S	upervisor	
Potential Designates Field or Pla	Field or Plant Personnel / Contract SME		
Reports to Public Prot	Public Protection Branch Director		
Forms / Lools	nt Briefing Form, Incide rmation Scripts	nt Action Plan, 214a Individual Activity L	og,
Role		Responsibilities	
The Air Monitoring Group is responsand providing air quality readings. directly using Pembina personnel or parties contracted to provide the sum Multiple responders within the Publication of the sum of the publication of the sum of the sum of the publication of the sum of the publication of the sum of the s	This may be done or through third ervice.	Coordinating and directing the activities of personnel within the Air Monitoring Group, including any subcontracted third parties or mutual aid partners.	
may also provide air monitoring res	sults through their	-	
own personal monitors. The Air Quality Group is responsible for coordinating all these results and producing a single consolidated report.  H <sub>2</sub> S, SO <sup>2</sup> , LEL or other toxic substance concentrations are monitored continuously during an incident response.		Providing regular, consolidated reports to the Public Protection Branch Director on the results of Air Monitoring across the response area.	
It is crucial that Air Monitors continuously update the Public Protection Branch Director with monitored		Tracking vapor plumes (if required.)	
results. If air monitoring readings show high levels of H <sub>2</sub> S, SO <sup>2</sup> , or LEL the Public Protection Branch Director may need to initiate evacuation / shelter of additional residences, change the location of the roadblocks, or ignite the release.		Monitoring Air Quality at the boundary of any urban centre potentially impacted by a release.	
See co	omplete <i>Role Guide</i> for	further details.	•
Digital version is availal	ble at <i>The Pipeline</i> . Har	d copies are available in the ICP.	

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# 3.3.22Reception Centre Group Supervisor

	Reception Centre Group	Supervisor	
Potential Designates	Field or Plant Personnel / Contrac	t SME / First Responder or Local Authori	ty
Reports to	Public Protection Branch Director		
Forms / Tools	201 Incident Briefing Form, Incide	nt Action Plan, 214a Individual Activity L	.og,
FOITIIS / TOOIS	Public Information Scripts		
	Role	Responsibilities	
The role of the Reception Centre Group Supervisor will vary depending on if the Local Authority or Pembina establish the reception centre.  Local Authority Reception Centre		Liaison with the Local Authority Reception Centre Manager.	
In most cases, the reception centre will be established by the Local Authority. In these cases, the Reception Centre Group will coordinate with the Local Authority Reception Centre Manager and exchange incident information. This includes the incident status and number of evacuees expected.		Coordinating and directing the activities of Pembina personnel within the Reception Centre Group.	
Pembina Reception Centre Where Pembina establishes their own reception centre, the Reception Centre Group will coordinate all activity, including establishing accommodation, feeding, communication and documentation for compensation		Logging all personnel who arrive at the reception centre.	
<ul> <li>following apply:</li> <li>In order to account within the Public Pro</li> <li>Community relation will be provided by the p</li></ul>	shes a reception centre the for evacuees, close coordination otection Branch will be required. as support must be deployed. This the CEOC based in Calgary and d through the Public Protection	Providing regular updates to the Public Protection Branch Director on:  The status of activities at the reception centre.  Residents who have arrived at the reception centre.	
See complete <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.			

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### 3.3.23 Security Branch Director

3.3.23Security Bran		ranch Director		
Potential Designates	Field or Plant Personnel /			
Reports to		Operations Section Chief		
Forms / Tools	201 Incident Briefing For	201 Incident Briefing Form, Incident Action Plan, 214a Individual Activity Log, Public Information Scripts		
R	ole	Responsibilities		
The Security Group Supervisor coordinates all security activities all incident facilities. These could include:		Implementing and coordinating security measures.		
	nting security measures	Ensuring only authorized personnel have access to the response location.		
and controlling access.  A Security Group Supervisor reports to the Security Branch Director.  Security Groups and Security Units If necessary, Security Branch Units may be allocated to other elements of the response to aid in efficient command and control of the incident. For example, a Staging Area Security Unit Leader may report to the Staging Area		Implementing strategies and tactics for the defined security locations.		
		Coordinating all Security Group / Unit activity.		
	·	Reporting all interactions with the public or media to their supervisor.		
Group supervisor rathe Branch Director. The roles and responsil Group Supervisor and a are identical, only their differs.	er than the Security bilities of a Security a Security Unit Leader	Providing regular updates to their assigned supervisor on the progress of Security Group / Unit activities.		
Digital versi	•	Guide for further details. Eline. Hard copies are available in the ICP.		

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# 3.3.24Search Group Supervisor

Search Group Supervisor				
Potential Designates	Field or Plant Personnel /	Field or Plant Personnel / Contract SME / First Responder or Local Authority		
Reports to	Security Branch Director	Security Branch Director		
Forms / Tools		201 Incident Briefing Form, Incident Action Plan, 214a Individual Activity Log, Public Information Scripts		
F	Role	Responsibilities		
The Search Group Supervisor coordinates and implements all search activities required during a response.		Planning how a search will be conducted.		
This may include searching for missing personnel and / or confirming the existence of threats to personnel, equipment or facilities. If searching		Ensuring the safety of Search Group personnel.		
for people, the Search Group may be required to conduct evacuation of injured personnel identified during the search.		Coordinating Search Group activities.		
The Search Group Supervisor plans the conduct of the search and coordinates personnel conducting the search.		Providing regular updates to the Security Branch Director on the progress of Search		
The Search Group Supervisor reports to the Security Branch Director.		Group activities.		
See complete <i>Role Guide</i> for further details.				
Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.				

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# 3.3.25 Evacuated Area and Public Property Group Supervisor

	Evacuated Area a	and Public Property Group Supervisor		
Potential Designates	Field or Plant Per	Field or Plant Personnel / Contract SME / First Responder or Local Authority		
Reports to	Security Branch I	Director		
Forms / Tools	201 Incident Brie Public Informatio	efing Form, Incident Action Plan, 214a Individual Activity L on Scripts	.og,	
Role		Responsibilities		
The Public Property an Area Group Supervisor security of controlled a	maintains ireas and all	Coordinating and directing the activities of personnel within the Public Property and Evacuated Area Group.		
public property within the evacuated area.  A key role is to record and report who is entering and leaving the controlled area. Other personnel will require access into the controlled area such as emergency services or response personnel. The recording of entry into, and out of, controlled areas is vital in ensuring the both the safety and security of the public and responders.		Controlling access into and out of controlled areas.		
		Maintaining security of all public property within the controlled area.		
		Ensuring the logging of details for all personnel entering and leaving the controlled area.		
		Providing regular updates to the Security Branch Director on personnel who have entered or left the controlled area.		
See Role Guide for further details. Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.				

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# 3.3.26Emergency Operations Manager

	Emergency Operatio	ns Manager		
Potential Designates	Business Unit VP, General Manager, Sr. Operations Manager, Operations Manager			
ICP Counterpart	Incident Commander	Incident Commander		
Forms / Tools		201 Incident Briefing Form, 214 Activity Log, 214a Individual Activity Log 215 Operational Planning Worksheet		
	Role	Responsibilities		
The Emergency Operation	ns Manager oversees the	Initiate the opening of the CEOC.		
	ns Manager is responsible for	Acknowledge assigned objectives from the Incident Commander and establish any CEOC specific objectives.		
activating the CEOC, ensuring that it has the appropriate organizational support to successfully support the incident and adjusting the organizational structure to meet the requirements of the incident with the resources available.		Develop the CEOC organizational structure		
		Approve the 201 Incident Briefing Form for the CEOC.		
The Emergency Operation information updates to the	ns Manager provides ne Executive and if necessary,	Monitor progress of the action plan against the objectives.		
works with the Executive guide the actions of CEOC	to establish priorities to	Ensure information updates are provided to the Executive.		
Emergency Operations M information is shared with	-	Ensure internal and external communications are accurate.		
regulators, and with the pappropriate channels. Thi conjunction with the Pub	•	If necessary, ensure recovery plans are developed to return service levels to normal.		
Digital version	See <i>Role Guide</i> for further details. Digital version is available at <i>The Pipeline</i> . Hard copies are available in the CEOC.			

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# 3.3.27 Deputy Emergency Operations Manager

	Deputy Emergency Operations M	anager			
Data atial Davisustas	Emergency Management On-Call, Bus	ness Unit VP, General Manager,	Sr.		
Potential Designates	Operations Manager, Operations Manager				
Reports to	Emergency Operations Manager	Emergency Operations Manager			
ICP Counterpart	Incident Commander / Deputy Inciden	t Commander			
Forms / Tools	201 Incident Briefing Form, 214 Activit 215 Operational Planning Worksheet	ty Log, 214a Individual Activity Lo	g		
	Role	Responsibilities			
	perations Manager supports and perations Manager on the running of	Initiate the opening of the CEOC.			
the CEOC. If necessary, tl	ney may replace the Emergency	Acknowledge assigned			
Operations Manager in th	ne event the Emergency Operations	objectives from the Incident			
Manager needs to take a	break from the running of the	Commander and establish			
incident. When standing	in for the Emergency Operations	any CEOC specific objectives.			
Manager the Deputy show	uld hold the same decision making	Develop the CEOC			
authority as the Emergen	cy Operations Manager.	organizational structure.			
	In the event the Deputy Emergency Operations Manager				
assumes command of the CEOC, the Emergency Operations		Monitor progress of the			
_	shift change brief to the Deputy	action plan against the			
	anager which should include the	objectives.			
	elegation of Authority held by the	Ensure information updates			
Emergency Operations M	anager for the incident.	are provided to the			
The roles and responsibili	ties of the Deputy Emergency	Executive.			
•	therefore identical to those of the	Ensure internal and external			
Emergency Operations M	anager. However, if the Emergency	communications are			
	ms it necessary, the Deputy	accurate.			
Emergency Operation Ma	inager may be directed to support or	If necessary, ensure recovery			
even fill any of the other	roles within the CEOC.	plans are developed to return service levels to normal			
Digital version	See <i>Role Guide</i> for further deta is available at <i>The Pipeline</i> . Hard copie				

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# 3.3.28Liaison Support

	Liaison Support		
Potential Designates	SME or Regulatory Representative		
Reports to	Emergency Operations Manager		
ICP Counterpart	Liaison Officer		
Forms / Tools	201 Incident Briefing Form, 214 Activity	Log, 214a Individual Activity Lo	g
TOTHIS / TOOIS	215 Operational Planning Worksheet		
	Role	Responsibilities	
The Liaison Support Lead	serves as the central point of contact	Act as the conduit for	
for stakeholders not othe	rwise represented in the CEOC	information from external	
organization. The Liaison	Support Lead coordinates closely with	agencies into the CEOC. If	
the Liaison Officer at the	ICP. If requested by the Incident	necessary, coordinate any	
Commander, the Liaison	Support Lead may assume some of the	external agencies present	
regulatory notification re	sponsibilities of the ICP.	in the CEOC.	
		Communicate information	
	ordinate through the Liaison function to	to the CEOC from external	
_ ·	nely and accurate information regarding	agencies throughout the	
· ·	, requirements, and resources	planning cycle.	
pertaining to their role w	ithin the incident. These stakeholders	Handle requests from other	
will vary according to the type of incident but may include		agencies to send Pembina	
regulators, emergency services, municipal, provincial and federal		liaison personnel to their	
jurisdictions, and private entities.		command centres.	
	Act as the conduit into the		
The stakeholders the Liais	CEOC for any Pembina		
_	incident. If necessary, the Liaison	liaison personnel deployed	
	o handle requests from other	with other agencies.	
	nbina representatives present at their	Support and advise the	
command posts.		Liaison Officer at the ICP.	
If requests for Pembina re	epresentation are received, it is the		
	anager who will sanction the	Maintain a 214a Individual	
	iaison Representatives with the CEOC	Activity Log to record key	
	dling the communication between them	events, decisions and	
and the CEOC.	aning the communication between them	timings.	
und the clot.			
	See Role Guide for further detail	s.	
Digital version	is available at <i>The Pipeline</i> . Hard copies a	re available in the CEOC.	
_	<u> </u>		

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# 3.3.29 Public Information Support

	Public Information Suppor	t				
Potential Designates	Crisis Communications Team					
Reports to	Emergency Operations Manager					
ICP Counterpart	Public Information Officer					
Forms / Tools	201 Incident Briefing Form, 214 Activ 215 Operational Planning Worksheet		g			
	Role	Responsibilities				
interfacing with the publi jurisdictions / organizatio	opport Lead is responsible for c, the media, and with other ns with incident related information the Pembina Crisis Communications	Advise the Emergency Operations Manager on all public information matters relating to the incident.				
Plan.  The Public Information Support Lead gathers, verifies, coordinates, and disseminates accurate, accessible, and timely information about the incident. This often includes the monitoring of social media and the implementation of strategies to manage messaging being delivered about the incident from individuals and organizations not directly related to the response.  The role of the Public Information Support Lead in the CEOC has similar responsibilities to the Public Information Officer at an ICP and may, at the request of the Incident Commander assume many of the responsibilities of the ICP PIO.  In many cases multiple agencies will be involved in a response and the Public Information Support Lead should ensure coordination of messaging is achieved across all these agencies.		Identify key information that needs to be communicated externally and internally.				
		Maintain close contact with the Public Information Officer at the ICP.				
		Coordinate messaging across all agencies and organizations involved in the response.				
		Prioritize messages to ensure timely delivery of information without overwhelming the audience.				
		Verify accuracy of information through appropriate channels.				
		Disseminate messages using the most effective means available.				
Digital version			See <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the CEOC.			

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# 3.3.30Safety Support

Safety Support				
Potential Designates	Safety Represen	tative		
Reports to	Emergency Oper	Emergency Operations Manager		
ICP Counterpart	Safety Officer	Safety Officer		
Forms / Tools	201 Incident Bri	efing Form, 214 Activity Log, 214a Individual Activity Lo	g	
-	215 Operational	Planning Worksheet		
Role		Responsibilities		
The Safety Support Lead for the ongoing assessme	•	Develop and maintain the CEOC Safety Plan		
The Safety Support Lead	monitors	Monitor, assess, and advise on the presence of hazardous conditions throughout the incident.		
operations and advises the Emergency Operations Manager on matters relating to the health and safety of personnel dealing with the response, including the Corporate Incident Support Team. As such, they interact regularly with both the Emergency Operations Manager and Operations Support Lead.  If necessary, the CEOC Safety Support Lead will work closely with the ICP Safety Officer to advise, and if necessary, develop mitigation strategies to permit the conduct of tasks that fall outside the normal Pembina safety procedures.		Monitor hazardous weather conditions that may impact personnel		
		Support the Safety Officer at the ICP in the maintenance of safe-work practices at the incident site.		
		Cooperate with the Operations Support Lead in the development of strategies and tactics that meet Pembina safety procedures.		
		Ensure proper risk management practices are applied throughout the incident		
		Recommend interventions as necessary to support the physical and mental wellbeing of staff.		
See <i>Role Guide</i> for further details. Digital version is available at <i>The Pipeline</i> . Hard copies are available in the CEOC.				

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# 3.3.31Security Support

		Security Support		
Potential Designates	Secur	ity Representative		
Reports to	Emer	Emergency Operations Manager		
ICP Counterpart	Incide	ncident dependent		
Forms / Tools	201 lr	ncident Briefing Form, 214 Activity Log,		
•	214a	4a Individual Activity Log, 215 Operational Planning Worksheet		
Role		Responsibilities		
The principle role of the	•	Collect and disseminate security related information pertaining		
Security Support Lead is	to	to the incident. This may include the production of intelligence		
advise the Emergency		type products from multiple sources with the intent of		
Operations Manager on	all	enhancing situational awareness within the CEOC		
matters pertaining to		Activate and implement the Security Threat Response Plan, if		
security of the incident.	This	required		
can manifest itself in ma	any	•		
forms and may require interaction with many of the		Support for mass fatality and missing persons investigations		
		Investigate incident source/cause		
Corporate Incident Supp	oort	investigate incluent source/ cause		
Team members.		Coordinate with the Safety Support Function to ensure the		
In circumstances where		safety and security of all response personnel		
physical deterrents or		Provide appropriate intelligence to external agencies		
security equipment nee	d to	conducting investigations	$  \; \sqcup \;  $	
be deployed, the Securi				
Support Lead coordinate	•	Provide appropriate intelligence to the Corporate Incident	-	
with the Operations Sup		Support Team to assist in developing evolving threats or	$  \; \sqcup \;  $	
Lead, the Incident	•	hazards		
Commander, or the		Identify, document, collect and create a chain of custody for		
Operations Section Chie	ef at	evidence pertaining to the incident	$  \; \sqcup \;  $	
the ICP.		Provide physical security deterrents at the CEOC and/or the ICP		
		See <i>Role Guide</i> for further details.		
Digital version	n is ava	ilable at <i>The Pipeline</i> . Hard copies are available in the CEOC.		

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### 3.3.32Operations Support

Operations Support				
Potential Designates				
Reports to	Emergency Operations Manager			
ICP Counterpart	Operations Section Chief			
·	201 Incident Briefing Form, 214 Activity Log, 214a Individual Activity Log			
Forms / Tools	215 Operational Pla	anning Worksheet		
Role		Responsibilities		
The Operations Support L	ead is responsible	Coordinate with on-scene responders to identify		
for providing resource su		and meet needs related to mass care,		
coordination to activities	_	emergency services, infrastructure, and		
reducing the immediate h	nazard, saving lives	operations management		
and property, reducing ha		Clarify resource requirements, deploy available		
environment, establishing		resources requested by the ICP, and identify	Ш	
control, and restoring nor		gaps in resource availability		
		Provide the Planning Support Lead with updates		
When the CEOC is activat		from on-scene contacts.		
Support Lead coordinates		Coordinate with the Logistics Support Lead to		
personnel to identify and		implement mutual aid or purchasing agreements		
resources so the ICP Operations Section staff		when internal resources cannot meet a		
can apply them to achieve incident		requirement.		
objectives.		Coordinate with internal and external		
When necessary for geog	raphically	organizations to identify long-term incident		
widespread or complex incidents or when		impacts and recovery requirements. If		
establishing a local ICP is not possible, staff in		necessary, coordinate with the Liaison Support		
this function can also support operational		Lead to identify long-term incident impacts and		
activity directly from the CEOC. The exact		recovery requirements for external		
structure of the Operation		stakeholders.		
within the CEOC will vary		Serve as conduits of information between		
needs of the incident. Typ	-	Corporate Incident Support Team staff and		
objective developed by th	• • • • • • • • • • • • • • • • • • • •	operational personnel on the ground		
would be established to d		Coordinate the process for initial and ongoing		
with the group reporting	-	assessment of incident-related damage.		
Support Lead. If multiple objectives are developed, care should be taken to ensure an effective span of control is maintained by the		Coordinate with the Planning Support Lead to		
		develop incident-specific recovery plans.		
Operations Support Lead.		integrate hazard mitigation into response and		
		recovery activities.		
See Role Guide for further details.				
Digital version is available at <i>The Pipeline</i> . Hard copies are available in the CEOC.				
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# 3.3.33Logistics Support

Logistics Support				
Potential Designates	Procurement Team			
Reports to	Emergency Operations Manager			
ICP Counterpart	Logistics Section Chief			
Forms / Tools	201 Incident Briefing Form, 215 Operational Planning V	, 214 Activity Log, 214a Individual Activity Lo Vorksheet	g	
R	ole	Responsibilities		
The Logistics Support Lead provides resource support to the incident. They work closely with the Operations Support Lead to source and procure resources through emergency contracts or mutual aid agreements.  The Logistics Support Lead coordinates closely with the ICP Logistics Section to ensure that resources, such as mutual aid equipment, are not being duplicated. If necessary, the Incident Commander may request direct support for resource ordering from the CEOC Logistics Support Lead.  The Logistics Support Lead also provides resources and services to support the needs of staff in the CEOC. This includes providing information technology support, resource tracking, resource acquisition, arranging for food, lodging, and other support services as needed.		Order commodities, teams, and personnel required by Corporate Incident Support Team members.		
		Activate mutual aid agreements and existing contracts as necessary to obtain required resources and services.		
		Develop mission assignments and draft statements of work for new contracts using requirements provided by the Operations Support Lead.		
		Oversee information security efforts. Provide support and maintenance for all technology used during the activation.		
		Plan, prepare, implement, and evaluate all logistics functions needed to support the CEOC and Corporate Incident Support Team.		
See <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the CEOC.				

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# 3.3.34Planning Support

Planning Support Planning Support			
Potential Designates	Technical Services Team		
Reports to	Emergency Operations Manager		
ICP Counterpart	Planning Section Chief		
201 Incident Briefing Form 2		214 Activity Log, 214a Individual Activity Lo	.g
Forms / Tools	215 Operational Planning W		•
	Role	Responsibilities	
The Planning Support Lea	id is responsible for	Assist the Emergency Operations	
	d disseminating information	Manager in developing objectives and	
	cident and ongoing incident	ensuring objectives are achievable.	
activities.	5 5	Facilitate the CEOC planning process	
		and develop and distribute the 201	
They facilitate the CEOC	planning process and	Incident Briefing Form.	
produce the 201 Incident	Briefing Form. The 201	Anticipate long-term impacts and	
Incident Briefing Form inc	cludes the objectives	possible cascading effects, including	
validated by the Emerger	ncy Operations Manager and	potential resource requests and policy	
provides essential inform	ation regarding the	issues in conjunction with the	
organization and work assignments of the Corporate		Operations Support Lead.	
Incident Support Team and resources for the planned		Conduct contingency planning as	l
operational period.	•	needed, in conjunction with Operations	
		Support Lead and Technical Specialists.	
The Planning Support Lead is also responsible for		Collate data from initial and ongoing	
collating damage assessm	nent information, gathering	assessment of incident-related damage	
pertinent incident inform	ation, and analyzing data.	and needs, conduct impact analyses,	l
The intent is to provide si	ituational awareness to the	and inform plans and resource	
		decisions with assessment results.	
	cision making. To enable	Enable and support information sharing	
	al Information System (GIS)	with senior Pembina leadership.	
function may be allocated		Support incident modeling and	
Section to assist in the development of situational		mapping requests. If necessary,	
awareness. If the nature of the incident requires it,		employ the use of a dedicated GIS Unit.	
Planning Support may be required to develop and			
	and long-term plans which	Meet information requirements to	
may include the developr	may include the development of recovery plans. support decisions.		
See Role Guide for further details.			
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# 3.3.35Finance and Administration Support

Finance and Administration Support				
Potential Designates	Business Unit Controller			
Reports to	Emergency Operations Manager			
ICP Counterpart	Finance and Adm	inistration Section Chief		
Farms / Table	201 Incident Brie	201 Incident Briefing Form, 214 Activity Log, 214a Individual Activity Log		
Forms / Tools	215 Operational I	Planning Worksheet		
Role		Responsibilities		
The Finance and Administ	tration Support	Track CEOC costs throughout the duration of the		
Lead manages all financia	l, administrative,	incident, through cooperation with the Logistics		
and cost analysis aspects	of the	Support Lead.		
emergency under the con	trol of the CEOC.	Analyze cost data, make estimates, and		
The Finance and Administ		recommend cost savings measures that can be		
Lead also provides admin	• • •	implemented by the response.		
to other CEOC sections.		Track purchases and fiscal agreements, ensuring		
		Pembina procurement policies are followed.		
The Finance and Administ	tration Support	Execute contracts and procurements required for		
Lead works closely with p	ersonnel in the	the response. Consider the mobilization of a		
ICP Finance and Administration Section.		Procurement Unit to assist with the legal		
The responsibilities of the CEOC Finance		implications of signing contracts.		
and Administration section closely align		Track working hours in accordance with normal		
with those of the ICP Finance and		Pembina Human Resources protocols and	l	
Administration Section, I	n some	procedures. Develop procedures and protocols to		
circumstances and if requested by the		deal with overtime issues resulting from the		
Incident Commander, the CEOC Finance		response.		
and Administration staff can assume some		Coordinate with the Safety Support Lead to track		
of the responsibilities of t		worker injuries and manage worker compensation		
•		claims. Consider the deployment of a Human		
counterparts and perform their behalf.	i iunctions on	Resources Technical Specialist.		
their benait.		Track compensations claims received from		
If necessary, the Finance	and	members of the public, government agencies and		
Administration Support Lo		other organizations. Request a Legal Technical		
compensation claims received because of		Specialist to support this function if required.		
the incident. In these cas		Support the Finance and Administration Chief in		
with the Legal Technical Specialist will be		the ICP with the execution of their duties. If		
required		necessary, be prepared to assume some or all		
required	their responsibilities.			
See Role Guide for further details.				
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# 3.3.36Legal Support

<u> </u>	Legal Support			
Potential Designates	SME or Legal Representative			
Reports to	Planning Support Lead or Emergency Operations Manager			
ICP Counterpart	Incident dependent			
Forms / Tools	201 Incident B	Briefing Form, 214 Activity Log, 214a Individual Activity Lo	og	
	215 Operation	nal Planning Worksheet		
Role		Responsibilities		
The role of the Legal Supp		The Legal Support Technical Specialist should be prepared		
Specialist reports to the P	lanning	to advise on the following:	to advise on the following:	
Support Lead. The prima	ry role is to	Public Information Support		
advise the Emergency Op	erations	Release of sensitive information.		
Manager and if necessary	•	Release of factually accurate information.		
Commander, on the all le	_	Data protection		
implications pertaining to	the incident	Liaison Support		
response.		Corporate exposure to legal liability		
The exact duties will vary according to		Response to Government inquiries and enforcement		
the incident but may require		Regulatory requirements for response and recovery		
interaction with all elements of the		activities		
Corporate Incident Support Team.		Safety and Operations Support		
		Consequences of actions undertaken during the	$  \Box  $	
Normally, a Technical Specialist works		response	L	
under the Planning Suppo		Planning Support		
However, depending on t		Insurance documentation requirements.		
the incident, this may not		Protection of privileged and confidential information		
appropriate. The Emerge	•	Logistics Support		
Operations Manager is re	•	Corporate standards for contracts and procurement		
creating the CEOC organization and will		Finance and Administration Support		
determine the best functi	ional area for	Compensation claims received because of the	[ _ ]	
you to operate in.		incident	$   \sqcup   $	
See <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the CEOC.				

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# 3.3.37Human Resources Support

	Human Resources Support			
Potential Designates	SME or Human Resources Representative			
Reports to	Planning Support Lead or Emergency Operations Manager			
ICP Counterpart	Incident dependent			
Forms / Tools	201 Incident	Briefing Form, 214 Activity Log, 214a Individual Activity Lo	g	
TOTHIS / TOOIS	215 Operatio	nal Planning Worksheet		
Role		Responsibilities		
The role of the Human Re	esources	The Human Resources Support Technical Specialist shou	ld	
Support Lead reports to t	he Planning	be prepared to advise on the following:		
Support Lead.		Public Information Support		
The primary role is to adv	ico tha	The release of sensitive information.		
The primary role is to adv Emergency Operations M		The release of factually accurate information.		
necessary, the Incident Co	_	Data protection.		
on matters pertaining to	-	Liaison Support		
Resources during a respo		Liaison with police during Next of Kin notifications.		
		Coordination with police and OH&S with information		
The exact duties will vary according to the incident but may require		regarding injuries and fatalities.		
		Safety and Operations Support		
interaction with all eleme		Health and wellness support to responders.		
Corporate Incident Support Team.		Provision of Critical Incident Stress Management		
Normally, a Technical Spe	ecialist works	resources.		
under the Planning Support Lead.		Planning Support		
However, depending on t		Provision of training standards to allow resource		
the incident, this may not		allocation.		
appropriate. The Emerge		Logistics Support		
Operations Manager is re	•	Provision of people to meet the needs of the		
creating the CEOC organization and		response.		
will determine the best fu		Finance and Administration Support		
area for you to operate in		Payroll and time tracking.		
area for you to operate in:		Emergency payroll policy / overtime		
See <i>Role Guide</i> for further details.  Digital version is available at <i>The Pipeline</i> . Hard copies are available in the CEOC.				

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### 3.3.38Executive

Executive			
Potential Designates	Incident Dependent		
Forms / Tools Business Impact Analysis		Impact Analysis	
Role		Responsibilities	
The primary role of an exe	ecutive	Ensuring the required preparedness activities have been	
during an incident is the f	ocus on	conducted prior to an incident occurring.	
the continuity of Pembina	1	Delegating authority to the Emergency Operations	
operations. Not only show	uld	Manager act on behalf of Pembina Corporation. If	
executives be developing		necessary (and permitted) the Emergency Operations	
plans and strategies for th		Manager can further delegate authority to the Incident	
term recovery, but also en	_	Commander.	
the company can function during		Providing direction, policy, and guidance to the Emergency	
an incident as well.		Operations Manager during a response. This is particularly	
an incluent as well.		relevant with respect to political, economic, and	
Where appropriate, they	can task	reputational issues pertaining to the incident	
the CEOC to undertake th		Supporting and enabling a multi-agency approach to	
level activities necessary i	required	manage the incident.	
to deliver Business Contin	•		
throughout the incident duration.		Identifying and enabling the strategic plans required to	
unoughout the incluent t	iui ationi.	enable the long-term recovery from an incident.	
See <i>Role Guide</i> for further details.			
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#### 3.4 Pembina Command Centres

To coordinate response efforts Pembina and will establish various command centres to manage required emergency response actions. These centres represent the location of specific response team members and may be set up temporarily or on a long-term basis depending on the nature of the emergency. Pembina utilizes the following command centres:

Туре	Description	Location
On-scene site management	The focal point for control and containment activities as well as communications to the ICP, at or as close to the actual incident site as possible given safety concerns. In many cases, activities may be	As required by incident.
Field Level Response	coordinated from a temporary and / or mobile location, such as the Initial IC's truck. As the event becomes more serious or complex, it may become necessary to activate the ICP. Refer to the applicable Initial Action Guide and Activation Guide for further information.	See applicable supplemental Plan(s)
Incident Command Post	The ICP will be activated during an emergency, as appropriate, usually at the area field office or plant site. The established ICP should be near the site of the emergency, but outside the hazard area.	As required by incident.
(ICP) Field Level Response	The ICP conducts tactical operations and is staffed by the Field Incident Management Team (FIMT). The ICP must have the appropriate equipment, personnel, and materials resources to manage the emergency.	See applicable supplemental Plan(s).
Corporate Emergency Operations Centre (CEOC)  Corporate Level Response	The ICP is supported by the CEOC which provides centralized and coordinated support, guidance, and strategic planning.  The CEOC will be activated during an emergency, as appropriate, at the Calgary head office. The Corporate Incident Support Team (CIST) operates out of the CEOC, which must have the appropriate equipment, personnel, and materials resources to manage the emergency. SMEs and Technical Specialists should be available to provide support to the ICP, as requested.	As required by incident.  CEOC Room 103, 34 Floor 585 - 8th Ave SW Calgary, AB T2P 1G1

Additional Pembina response locations, such as a reception centre or staging area, may be stood up to serve a specific function, as required by the incident.

### 3.5 Other Response Locations

Depending on the size or nature of the emergency, other stakeholders such as governments or regulators, may establish their own centres to coordinate response efforts. In such events, regulators generally encourage the formation of a single Regional Emergency Operations Centre (REOC) for industry and municipal response personnel to form Unified Command.

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The following table provides information about other possible response locations and their activities:

Name/Type	Purpose	Activities	Potential Location
Reception Centre	A registration centre for members of the public that have been evacuated. May provide temporary lodging. Alternative checkpoint for workers to report to on a designated schedule.	<ul> <li>Registers evacuees</li> <li>Addresses immediate needs for food, housing and information</li> <li>Records destination details of evacuees leaving the area</li> <li>Addresses immediate compensation claims (short term claims)</li> <li>Provides information to Public Safety Section Chief on the status of evacuation activities</li> </ul>	Determined by incident location. Refer to Asset Specific Plan(s)
Municipal (MEOC) Regional (REOC) Provincial (POC) Provincial (PREOC) (BC Only)	Focal point for Provincial and Municipal Government local response.	<ul> <li>MEOC mobilized at a Level 2</li> <li>REOC Mobilized at a Level 3</li> <li>POC Mobilized at a Level 3</li> <li>May assist with public safety</li> <li>Activates and assists with Government fan-out communication</li> <li>Monitors activities of Pembina</li> <li>Provides technical support and regulatory direction to the Company</li> <li>Sends representative to the Incident Command Post</li> </ul>	<ul> <li>Regional Provincial Energy Board Office</li> <li>Local County Disaster Services Office</li> <li>City Offices</li> <li>Provincial Emergency Management Office</li> </ul>
Joint Information Centre (JIC)	May be established as a central location for facilitating operation of the Joint Information System. Provides the mechanism to organize, integrate, and coordinate information to ensure timely, accurate, accessible, and consistent messaging across multiple jurisdictions and/or disciplines with nongovernmental organizations and the private sector.	Perform critical emergency information functions of crisis communications and public affairs. Includes the plans, protocols, procedures, and structures used to provide public information.	Established at various levels of government, at incident sites, or can be components of Multi-agency Coordination (MAC) Systems (e.g., MAC Groups or EOCs). A single JIC location is preferable, but the system is flexible and adaptable enough to accommodate virtual or multiple JIC locations, as required.

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#### 3.6 Sherwood Park Control Centre



### 3.7 Governmental/Regulatory

Refer to Section 5.0 External Support and Regulatory Reporting.

### 3.8 Local First Responders

Refer to Section 5.0 External Support and Regulatory Reporting.

### 3.9 External Support Providers

Where support providers (i.e., contractors, vendors, suppliers) are required to support Pembina in carrying out emergency response related activities, Pembina will ensure support providers are appropriately qualified / competent to complete the required tasks.

To facilitate this, Pembina will endeavor to utilize pre-identified / pre-qualified stakeholders for the required activities. See the applicable Area or supplemental plan for support services information and contacts. For further information on external stakeholder competency and pre-qualification, refer to Pembina's Safety Management Program on The Pipeline.

### 3.10 Volunteers / External Workers

Depending on the size and scope of the incident, volunteers or other external workers may need to be engaged to assist with response activities – these may be individuals from local response agencies or members of the public at or near potential response locations (e.g., staff at facility established for reception centre, volunteer organizations, members from the local community, etc.). In the event an incident requires the use of volunteers, Pembina will develop a management plan specific to the requirements of the incident.

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# 4.0 EMERGENCY RESPONSE ZONES AND PUBLIC PROTECTION MEASURES

#### 4.1 Emergency Response Zones

The type of emergency response zone(s), and the method in which it is calculated, vary from one regulatory jurisdiction to another. Refer to the appropriate site/system data for details.

#### 4.1.1 Emergency Planning Zone

An Emergency Planning Zone (EPZ) is a geographical area surrounding a pipeline or facility that requires specific emergency response procedures based on a hazardous product. The extent of an EPZ is determined using industry accepted dispersion modeling software and/or analysis.

#### 4.1.1.1 EPZs for Pipelines

#### High Vapor Pressure (HVP) Pipelines

The primary hazard associated with High Vapour Pressure (HVP) products is flammability.

HVP EPZs below are based on the recommended CAPP Companion Planning Guide to Directive 71 below:

Pipeline Size		Ethane, Propane & Butane Mix (without Ethylene)
3"	88.9 mm	250 m
4"	114.3 mm	300 m
6"	168.3 mm	500 m
8"	219.1 mm	700 m
10"	273.1 mm	900 m
12"	323.9 mm	1100 m
16"	406.4 mm	1600 m
20"	508.0 mm	Modeled
24"	609.6 mm	Modeled

Although these zones are referenced only in the Alberta regulations, it is expected that public protection measures will be initiated in this manner, where similar regulations do not exist.

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### Low Vapor Pressure (LVP) Pipelines

There are no pre-determined or calculated EPZs; however, the Right of Way (ROW) distance is the minimum recommended zone from the AER. Response Zones may be established in an LVP incident to help manage the area around the incident site as follows:

Hot Zone	<ul> <li>May also be named the red or work zone.</li> <li>Defines the area affected by and in proximity to the release (i.e. release site).</li> <li>This area is restricted to authorized personnel only.</li> <li>All personnel in this area must be equipped with PPE, as required</li> </ul>
Warm Zone	<ul> <li>May also be named the yellow or decontamination zone.</li> <li>This is the clearly defined buffer area around the hot zone.</li> <li>This area is critical in keeping contaminants within the impacted area, therefore reducing and/or eliminating the spread of contaminants to clean areas.</li> </ul>
Cold Zone	<ul> <li>May also be named the green or clean zone.</li> <li>This is the clearly defined buffer area adjacent to or surrounding the warm zone.</li> <li>Staging management, planning areas, and onsite command centres are in the clean zone.</li> </ul>

Pembina has assumed a 50 m EPZ for sweet crude pipeline corridors based on the radiant heat of the initial ignition of a pool of crude oil resulting from a catastrophic release. Refer to the Corporate Spill Contingency Manual for further information.

### Sour Pipelines (Alberta)

The AER has developed a software program that calculates EPZs using thermodynamics, fluid mechanics, atmospheric dispersion, and toxicology modelling. This software includes both user input variables and model parameters to determine the size of the EPZ for pipelines containing sour gas with a H<sub>2</sub>S concentration of 0.1 mol/kmol (100 ppm / 0.01 % / 0.0001 mole fraction) or greater.

### Sour Pipelines (BC)

Planning zones are determined by reference to the maximum potential H2S release volume from the pipeline, calculated in accordance with the prescribed regulated equations.

### 4.1.1.2 EPZs for Facilities

For facilities with HVP pipelines entering or leaving the location, the facility EPZ is equal to the largest planning zone assigned to an entering or exiting HVP pipeline.

For facilities that are licensed for H2S, the EPZ of the facility is equal to the largest H2S pipeline EPZ entering or leaving the facility.

For facilities that have storage vessels on site, EPZs are calculated for each of the vessels as per Canadian Environment Protection Act (CEPA) Environmental Emergencies (E2) Regulations. These calculations are based on the Guide for Major Industrial Accidents Reduction Council or independent plume dispersion modeling.

If a combination of HVP lines, sour lines, and storage vessels, or wells and caverns are on site, the facility EPZ is assumed to be the largest calculated EPZ, from the boundary of the facility.

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### 4.1.2 Initial Isolation Zone (Alberta Only)

The **Initial Isolation Zone (IIZ)** is the area immediately surrounding the source of an emergency that represents the greatest hazard to the public. Members of the public in this area should receive top priority because they are located near the highest concentration of the hazard.

If safe to do so, an attempt to evacuate residents in this zone must occur.

### 4.1.3 Protective Action Zone (Alberta Only)

The **Protective Action Zone (PAZ)** is the downwind portion of the EPZ. Members of the public in this area should receive notification once the IIZ has been notified. This area is determined using wind direction and monitors that measure the appropriate hazard.

### 4.1.4 Hazard Planning Zone (BC Only)

A **Hazard Planning Zone (HPZ)** is a geographical area determined by using the hazard planning distance as a radius, and within which persons, property or the environment may be affected by an emergency.

A hazard planning distance is a horizontal distance and is measured from the site of an oil and gas activity that is subject to a Plan.

In BC, the geographical area that encompasses all the hazard planning zones for an oil and gas activity that is subject to a Plan will be referred collectively as the EPZ.

### 4.1.5 Hazard Response Zone (BC Only)

A Hazard Response Zone (HRZ) is the area affected by an incident/emergency.

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# 4.1.6 High Consequence Areas

High Consequence Areas (HCA) are areas and/or receptors identified as having significant biophysical or socio-economic value, where an unplanned release could have the most significant adverse consequences and require additional focus, efforts, and analysis to ensure integrity. If a pipeline is in proximity to, or upstream of an HCA, increased contingency planning may be required, such as the development of critical control points. Additionally, if an unplanned release occurs into an HCA, recovery efforts must increase in these areas to maintain their integrity and to return the area to its predisturbance state.

HCAs may include, but are not limited to:

- High population areas
- Waterways
  - Rivers
  - Lakes
  - Streams
  - Wetlands
  - Dams and reservoirs
- Environmentally Significant Areas
  - Drinking water supplies
  - Ecological reserves
  - Parks
  - Biodiversity areas
  - Critical habitats
  - Species and ecosystems at risk
- Heritage features
- Traplines and fur management areas

### 4.1.7 Entry Procedures into the EPZ

- Only authorized personnel may enter the response zones.
- Use the "Buddy System" when required.
- Schedule reports or "Check-in" 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.

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### 4.2 Public Protection

Public protection measures will be implemented at any level of emergency (or incident classification) when members of the public may be affected. Public protection measures can be implemented individually or simultaneously depending on the requirements of the emergency:

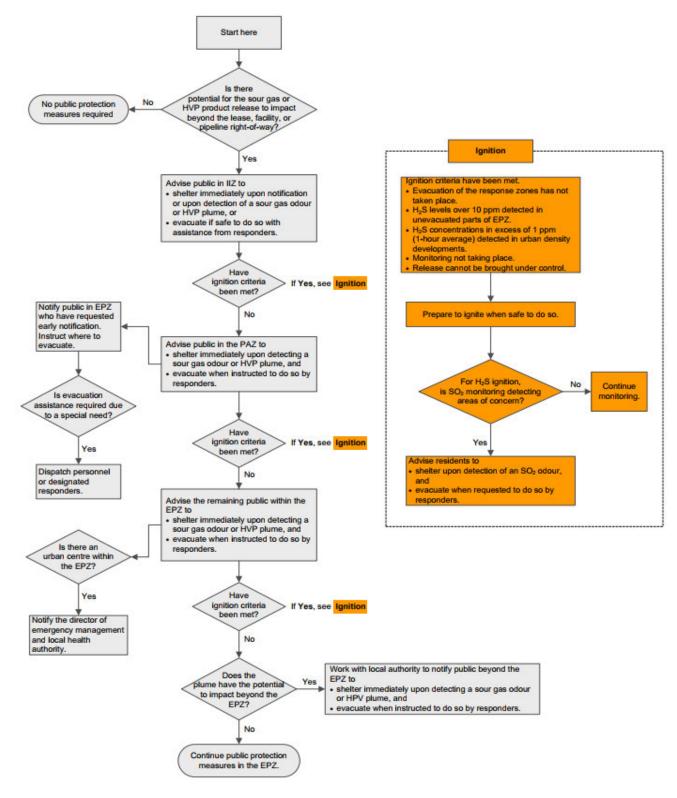
- Area Isolation setting up roadblocks and barriers to prevent entry into a hazard area;
- Shelter-in-Place requesting members of the public to shelter indoors until the hazard ends or until it is safe to evacuate;
- Evacuation requesting members of the public to evacuate the area until safe to return; and
- Ignition planned or intentional ignition of a release. This may be used in circumstances where regulated ignition criteria are met.

Additional information about each method is available further in this section.

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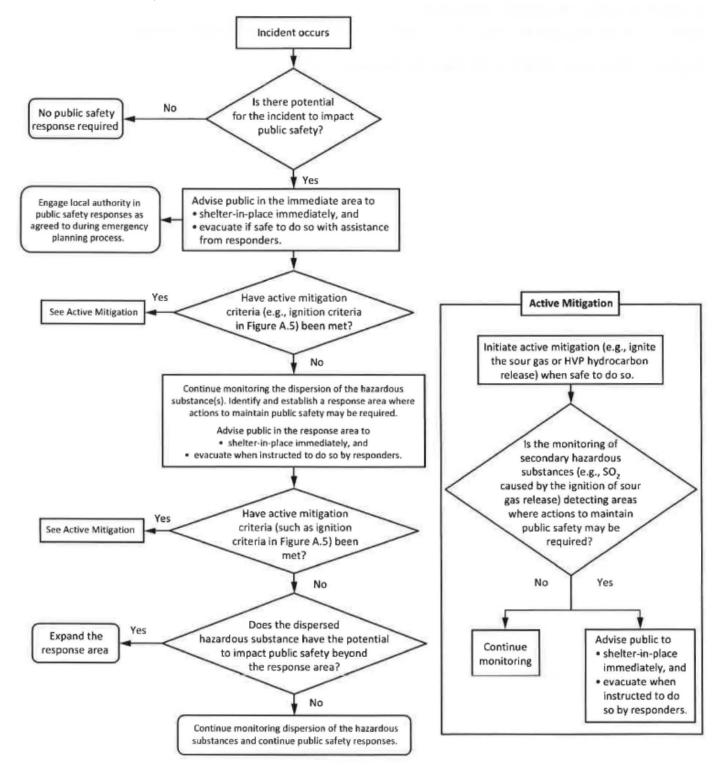
### 4.2.1 Public Protection Measures Flowchart – Alberta



Source: AER Directive 71

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# 4.2.2 Public Safety Decision Process – Other Jurisdictions



Source: CSA Standard Z246.2-18, Figure A.4

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# 4.3 Air Quality Monitoring

Pembina facilities are designed, constructed, and operated in a manner that minimize emissions and ensures that regulatory air quality standards are met or exceeded. Facilities are equipped appropriately with remote monitoring devices (e.g., leak detection, gas detection, pressure, etc.) to alarm when equipment is being operated outside of normal conditions or when situations exist that may result in a potential hazard to the public, the environment, or personnel and facilities.

In addition to the remote monitoring, operations and maintenance personnel are responsible to conduct scheduled site inspection and surveillance.

In the event of an emergency, air quality monitoring will be dispatched to track and measure the concentration of product in an area regardless of the established level of emergency (or incident classification). Initial monitoring will be accomplished using Pembina personnel. As soon as possible, additional monitoring resources with portable or mobile air monitoring equipment will be contacted to monitor the atmosphere in conjunction with provincial/state environmental agencies.

Monitoring may occur downwind or upwind depending on how the plume is tracking. Priority should be directed to the nearest un-evacuated residence(s) or area(s) where people may gather, as well as any nearby urban density developments.

Monitoring information must be provided on a regular basis throughout an emergency to the regulators, provincial environmental agencies, health authorities, local authorities, and to members of the public that request it.

### 4.3.1 Equipment

Air quality monitoring equipment is used to:

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

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

- Access and egress points;
- Area topography;
- Population density and proximity to urban density developments, and
- Local conditions.

Hand-held monitors may be readily available and easier to access but should not replace continuous monitors stationary or mobile monitors which can be requested from contractors/vendors, provincial/state environment agencies, regulators, or mutual aid groups.

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# 4.4 Area Isolation (Roadblocks)

As a safety precaution, potentially hazardous area(s) should be isolated and secured using roadblocks to prevent unauthorized entry into response zones during emergencies.

Isolating the area prevents people from jeopardizing their own personal safety and could reduce the potential for unplanned ignition to occur.

All access roads to and from the incident site should be blocked. Roadblocks should be placed in locations that are clearly visible to oncoming traffic. The roadblocks should also be located at intersections or pullouts to enable traffic to easily turn around or take detour routes.

Roadblock personnel will be assigned as required; additional roadblock assistance may also be obtained from police, highway crews, local authorities, or contractors. For areas where there is a high volume of recreational activity, roadblocks may also need to be set up to block trailheads and waterways

If a Regulatory Level 2 or 3 Emergency has been declared, roadblocks must be set up at the boundaries of the EPZ.

### 4.4.1 Major Highways / Traffic Control / Railways / Airspace

Where major highways and/or railways pass through the hazard area or EPZ, the provincial transportation authority and/or the railway company must be contacted for approval and assistance with road closures or blockades.

The protection of the public may require a closure of airspace. NAV Canada's regional office can be contacted to assist with the issue of a Notice to Airmen (NOTAM). If drones are being used in the hazard area or EPZ, a NOTAM can be requested to prohibit their use.

### 4.4.2 Identifying Members of the Public / Transients within the EPZ

A confidential database of contact information is maintained for residents who live within rural areas of the EPZs for HVP and H<sub>2</sub>S pipelines and associated facilities, as well as E2 regulated assets.

In the event of an incident related to an HVP or H<sub>2</sub>S pipeline or facility, members of the public must be notified within the EPZ radius around the location of the release/incident site.

Resident and business locations are referenced on the map by letter and corresponding contact information is maintained within the applicable supplemental Plan(s).

Transient populations (e.g., recreational users, trappers, industrial operators, etc.) are identified in the applicable supplemental Plan(s). Rovers will be dispatched to search the EPZ for individuals who may not have received the public protection notification(s).

If safe to do so, and weather permitting, a helicopter will be dispatched to visually identify the locations of recreational users, hunters, trappers, and others who may require notification and/or evacuation. These land users may be notified by air horns or loudspeakers, or their locations will be radioed to ground rover personnel to locate using appropriate search vehicles. Mutual aid support may also be used to support locating transient land users.

Refer to the *Corporate Spill Contingency Manual* for further information pertaining to isolating a liquid release area.

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# 4.5 Conducting Notifications

### Public notifications must begin as soon as possible upon confirmation of an emergency.

If a release has the potential to impact beyond the lease, facility boundary, or pipeline right-of-way, the licensee must notify:

- The public in the response zones and EPZ;
- The Director of Emergency Management (DEM), if an urban centre is within the EPZ;
- Individuals within the EPZ that have requested early notification and wish to voluntarily evacuate; and
- The local authority and provincial/state health authority.

### 4.5.1 Notifications within the EPZ

Members of the Public and Stakeholders within the EPZ will be provided with directions relevant to the incident, including shelter-in-place, and/or evacuation instructions, as required.

As appropriate, the Public Protection Branch Director will designate a Notification Group Supervisor who will assemble a team of Telephoners to deliver the appropriate public protection messaging. The Notification Group Supervisor will report notification status to the Public Protection Branch Director.

Surface developments within the EPZ may be identified as "special needs" based on early notification requirements for reasons such as requiring evacuation assistance, no means to contact by telephone, communication barriers, or significant health or personal concern for which they have requested early notification.

Company or contract personnel will visit worksites and transient locations to deliver public protection messaging. All known transient locations, vacant residences, or locations with unknown telephone numbers are deemed special needs and must be personally contacted, if safe to do so.

When required, Pembina personnel will work with the local authorities to determine the best methods to protect the public based on parameters such as the magnitude of the incident, wind speed and direction, secondary fires, time of day, etc.

### 4.5.1.1 Notification System

Pembina may utilize a manual and/or electronic notification system to complete notifications to surface developments located within the EPZ, as appropriate to the incident.

### 4.5.1.2 Notifications by Regulatory Level of Emergency (AB/BC)

Level 1 Emergency declared (and confirmed with the appropriate regulator) only public identified as special needs must be notified.

Level 2 or 3 Emergency declared (and confirmed with the appropriate regulator), notifications will occur in the following order of priority:

- 1. Public located immediately adjacent to the incident site (in Alberta, the IIZ).
- 2. Public located immediately downwind of the emergency site (in Alberta, the PAZ)
- 3. Public identified as having special needs.
- 4. Public located within the remainder of the EPZ.

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### 4.5.1.3 Urban / Population Centres

If an urban or population centre is located within the EPZ, notification of the public will be coordinated with the local or municipal authority. Communication will be made by local emergency responders, local media, and provincial alert systems.

### 4.5.2 Notifications outside the EPZ

In the unlikely event that public protection measures are required outside of the EPZ, they will be coordinated with Local Authorities. Provincial alerting or warning systems and/or broadcast media may be used to notify the public outside of the EPZ for immediate shelter or evacuation situations.

### 4.5.3 Information for Public Dissemination

Notifications, sheltering, and/ or evacuation messages must be edited to suit the nature of the emergency and be confirmed by the Incident Commander prior to public dissemination. Scripts are found with the Appendix - Forms at the back of this Plan. Initially, members of the public will be advised of:

- The type of incident;
- Approximate location of the incident;
- Public protection measures to follow;
- Actions Pembina is taking to respond to the situation; and
- Contact numbers they can call for additional information.

During the incident, the public within the EPZ must receive regular communication to keep them informed of the situation and actions being taken. Additional details are provided in the table below

To those evacuated or sheltered – at the onset	To those evacuated or sheltered – during
<ul> <li>Type and status of the incident</li> <li>Location and proximity of the incident to people in the vicinity</li> <li>Public protection measures to follow, evacuation instructions, and any other emergency response measures to consider</li> <li>Actions being taken to respond to the situation, including anticipated time period</li> <li>Contacts for additional information</li> </ul>	<ul> <li>Description of the products involved and their short term and long term effects</li> <li>Effects the incident may have on people in the vicinity</li> <li>Areas impacted by the incident</li> <li>Action the affected public should take if they experience adverse effects</li> </ul>
To the general public – during	
<ul> <li>Type and status of the incident</li> <li>Location of the incident</li> <li>Areas impacted by the incident</li> <li>Description of the products involved</li> <li>Contacts for additional information</li> <li>Actions being taken to respond to the situation, including anticipated time period</li> </ul>	(Source: Adapted from AER Directive 71, Appendix 8):

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### 4.6 Shelter-in-Place

Sheltering is considered the safest form of public protection in the following circumstances:

- There is insufficient time or warning to safely evacuate the public that may be at risk;
- Residents are waiting for evacuation assistance;
- The release will be of limited size and/or duration;
- The location of a release has not been identified;
- The public would be at higher risk if evacuated;
- Buildings considered to be within/near toxic or explosive gas plumes; and
- Escape routes traverse the hazards.

Sheltering is recommended until the extent of the plume can be assessed and a safe evacuation can occur.

### 4.6.1 HVP Operations

Sheltering indoors is the primary public protection measure for an HVP product release.

### 4.6.2 Sour Operations

If evacuation is not possible, then sheltering in place can be used to protect members of the public, under certain conditions.

Depending on the volume, size, duration, or meteorological conditions, sheltering-in-place may not be a viable public protection measure within the IIZ during an H<sub>2</sub>S release. In this situation, the public safety aspects of sheltering-in-place will have to be continuously re-evaluated during the incident and assisted evacuation may be necessary to ensure public safety.

Members of the public within the EPZ but outside of the PAZ may be contacted and advised to initially shelter-in-place pending further instructions from a Pembina representative.

### 4.6.3 General Shelter-in-Place Instructions

4.0	5.5 General Sheller-In-riace instructions
Ad۱	vise impacted public to immediately gather everyone indoors and complete the following:
	Close and lock windows and outside doors – if possible, tape the gaps around door frames.
	Extinguish fires in fireplaces - if possible, close the damper.
	Turn off appliances or equipment that either uses inside air, blows out inside air or sucks in outside
	air, such as:
	Gas stoves and gas fireplaces
	Clothes dryers
	• Air conditioners
	Bathroom and kitchen fans
	Built in vacuum systems
	Turn down furnace thermostats to the minimum setting.
	Leave all inside doors open.
	Avoid using the telephone, except for emergencies, so that you can be contacted by emergency
	personnel.
	Stay tuned to local radio for possible information updates or for further instructions.
	Even if you see people outside do not leave until told to do so.
	Remain indoors until further instructions are provided.
	If you are unable to follow these instructions, please notify emergency response personnel.

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# 4.6.4 Post Shelter-in-Place Instructions

After the hazardous substance has passed through the area, emergency response personnel will conta	ct
all sheltered persons with instructions to:	
☐ Ventilate the building by opening all windows and doors	
☐ Turn on fans, turn up thermostats, and furnace circulating fans	
☐ Once the building is ventilated, return all heating, ventilating and other equipment to normal	
Additional instructions may need to be provided based on the specifics of the emergency.	

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### 4.7 Evacuation

Pembina can advise members of the public to evacuate; however, mandatory evacuation can only occur when the local authority / health authority / or applicable governing body issues a **State of Local Emergency (SOLE)** allowing for the closure of roads and mandatory evacuations.

The Police may assist with evacuation efforts, as required; however, would be discouraged from entering the EPZ unless safe to do so.

During a hazardous release, the decision to evacuate should only be made by qualified individuals with access to appropriate monitors. Evacuation of the public should only proceed when it is safe to do so and after an assessment of:

- The size and expected duration of the release,
- Egress routes,
- Current and expected meteorological conditions, and
- The potential for unexpected ignition.

In the event of evacuation, Rovers in the field and/or Telephoners designated at the ICP or CEOC will notify residents and businesses to evacuate to the appropriate Reception Centre and provide the following information:

- Gather all persons in the residence/business, secure your location, and immediately leave the area.
- Follow the provided travel directions this will take you away from any suspected unsafe areas by the safest route.
- If required, transportation and support will be provided to those persons who require assistance.
- Proceed to a designated Reception Centre where a Pembina representative will meet you. They will
  provide evacuation information, answer any questions, and attempt to address any immediate
  concerns that you may have.

Members of the public located within the EPZ identified as having special needs will be notified at a **Regulatory Level 1 Emergency**, so they can be offered voluntary evacuation.

Evacuation, if safe to do so, must be initiated for all other members of the public within the EPZ including trappers, guide/outfitters, and transients within the EPZ upon the declaration of a **Regulatory Level 2 Emergency or higher.** 

If large numbers of people are present in the EPZ, Pembina will provide evacuation assistance or a change in the normal notification procedures, as required. Busses may be used to transport large numbers of evacuees and helicopters may be used to locate transients in the EPZs.

Public located outside the EPZ must be notified and evacuated in the event that the hazard extends past the pre-determined EPZ. Broadcast media may be used to notify these residents located outside the EPZ if immediate evacuation or sheltering actions need to occur. Pembina will work with the local authority to coordinate response actions, as required, outside the EPZ

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Prior to evacuation, ensure the following:

- Reception/evacuation centres have been established,
- Clear evacuation routes are identified and communicated,
- Evacuated locations check-in with established roadblock personnel and/or reception centre representatives, and
- Special needs locations are identified and assisted, as required.

### 4.7.1 HVP Operations

Evacuation is recommended for incidents in which the plume is visible, and egress can occur in any direction away from the plume.

# 4.7.2 Sour Operations

For incidents where the public may be exposed to sour gas for long durations, evacuation should be used as the primary public protection measure when the public can be safely removed from the area during or prior to an emergency. Evacuation begins in the IIZ and expands outward into the PAZ (downwind of the release) so that members of the public are not exposed to H2S.

Typically, residents within the EPZ but outside of the PAZ will be contacted and advised to initially shelter-in-place pending further instructions. A shift in wind direction will require immediate reevaluation of the PAZ and the need for additional evacuation and/or sheltering.

Pembina must continually perform air quality monitoring within the EPZ. Monitoring results will dictate areas where evacuation is required. In the absence of monitored readings, responders should advise residents to shelter-in-place.

### 4.7.2.1 Sour Operations – Alberta Evacuation Requirements

H₂S Concentrations in Unevacuated Areas	Requirement			
1 to 10 ppm (3 minute average)	Individuals who requested notification so that they can voluntarily evacuated before any exposure to H <sub>2</sub> 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.			
Note: if monitored levels over the 3 minute interval are declining (i.e., 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. Licensees should use proper judgment in determining if evacuation is required.				
SO <sub>2</sub> Concentrations in Unevacuated Areas	Requirement			

SO₂ Concentrations in Unevacuated Areas	Requirement
5 ppm (15 minute average)	Immediate evacuation of the area must take place.
1 ppm (3 hour average)	Immediate evacuation of the area must take place.
0.3 ppm (24 hour average)	Immediate evacuation of the area must take place.

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### Sour Operations – BC Evacuation Requirements 4.7.2.2

H₂S Concentration	Requirement
1 to 9 ppm	Individuals who requested notification so that they can voluntarily evacuate before any exposure to H <sub>2</sub> S must be notified.
10 ppm and above	Local conditions must be assessed, and all persons must be advised to evacuate and/or shelter.

Note: if monitored levels over the 3 minute interval are declining (i.e., 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. Licensees should use proper judgment in determining if evacuation is required.

SO <sub>2</sub> Concentrations	Requirement
1 to 4 ppm	Individuals who requested notification so that they can voluntarily evacuate before any exposure to H <sub>2</sub> S must be notified.
5 ppm and above	Local conditions must be assessed, and all persons must be advised to evacuate and/or shelter.

### 4.7.3 Rover Personnel

Pembina and/or contract personnel will be dispatched to identify and advise public protection measures to transients, area users or locations where the public may gather within the EPZ or impacted area. Rover personnel will also confirm evacuation of residents and businesses contacted by telephone or where no telephone contact has been made.

### 4.7.4 Reception Centre

A Reception Centre will be activated when members of the public within the EPZ are displaced due to an emergency. The Receptions Centre(s) is established at a safe distance from the emergency site.

To ensure a coordinated response, the Reception Centre(s) is ideally activated jointly by Pembina and the Local Authority. These agencies have pre-established locations throughout the Municipality and should be notified early to discuss site options.

Hotels/Motels may be considered in situations where immediate access is required, or a location is required outside of normal business hours.

- The Reception Centre Group Supervisor is responsible for activating the reception centre, and meeting and registering evacuees. This role may be filled by the local authority or a local social services group.
- Telephone callers (if residents are contacted by phone) or Rovers (if residents are contacted in person) must ask for alternate destinations and phone numbers in the event evacuees choose not to check in at the Reception Centre.
- Designated Reception Centre locations are referenced in the applicable Area or Supplemental plan(s).

A Reception Centre Registration Form is located in Appendix - Forms located at the back of this Plan.

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### 4.7.5 Special Considerations

Special procedures may be required for evacuating public facilities. If large numbers of people are involved, assistance with transportation (e.g., using buses) or changes in the normal notification procedures may be required. Pembina will coordinate efforts with the person in charge of that specific facility and the local authority.

Public concerns about livestock and pets are to be expected in emergency situations. Most emergencies involving HVP pipelines or releases from facilities have a limited duration and will likely not require residents to be away from their homes for extended periods of time. Public safety is the primary purpose of the response; however, when possible, residents will be advised to take their pets to the Reception Centre and/or to another pet-friendly accommodation. Actions involving livestock will be addressed on a case-by-case basis.

### 4.7.6 Return of Evacuees

The decision to permit the return of persons shall be made by Pembina, in consultation with the regulatory agency (i.e., AER, CER, OGC etc.), local authority, health authority and provincial emergency management agency.

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# 4.8 Ignition

Until such time that a decision has been made to intentionally ignite a release, steps should be taken to minimize any chance of unplanned ignition in the area.

### Ignition criteria and considerations are different for HVP and Sour Gas (H2S) products.

The decision to ignite is assigned to a company representative on site and is based upon the following ignition considerations below. Time permitting; consultation with the Incident Commander, Emergency Operations Manager, and Regulator should be conducted.

Lead regulatory agencies 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.

### 4.8.1 Ignition – HVP Operations

Ignition considerations may include, but not be limited to:

- Has the area been isolated?
- Has the public and personnel been evacuated from the hazard area?
- Has the wind direction been established and is it being continually monitored? Indicators should be clearly visible. Examine weather conditions and analyze potential changing circumstances.
- Will ignition worsen the situation by endangering the environment, public, private property or equipment?
- Is there a possibility of an explosion due to obstructions or regions of congestion within the perimeter of the dispersing vapour cloud?
- Is the appropriate personal protective equipment available?
- Has the local fire department and medical support been mobilized? Is firefighting equipment readily accessible?

Situations where planned ignition would not be considered:

- Injury and death to the public located inside and outside residences
- Inability to control resulting fire (e.g. crops, structures, timber)
- Potential for employees or the public to inadvertently enter the cloud prior to or during ignition (isolation boundaries not sufficiently established)
- Unfavorable wind conditions impacting the size of the flammable cloud

### **Flammability Range**

The Flammable Range (Explosive Range) is the concentration range of a gas or vapor that will burn (or explode) if an ignition source is introduced. Below the explosive or flammable range, the mixture is too lean to burn; above the upper explosive or flammable limit the mixture is too rich to burn. The limits are commonly called the "Lower Explosive or Flammable Limit" (LEL/LFL) and the "Upper Explosive or Flammable Limit" (UEL/UFL). The following information is provided to assist with the initiation of worker and public protection measures.

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Pro	duct	Lower Explosive or Flammable Limit (LEL/LFL) (% by volume of air)			Upper Explosive or Flammable Limit (UEL/UFL) (% by volume of air)			IDLH (ppm)
Buta	ne		1.8		8.41			-U-
Ethai	ne	3			12.4			-A-
Meth	nane	5			15			-A-
Penta	ane	1.5			7.8			1500
Prop	ane	2.1			10.1			2100
	Legend							
Α	Ası	phyxiant IDLH Imme		Immediate dar	nger to life and health	U	Date not	available

The Alberta OH&S Occupational Limit 20% of the LEL.

Pembina's limit is 10% of the LEL. Based on monitoring data if the concentration of a flammable vapour or gas is greater than 10% of the LEL, consideration to evacuate members of the public should be evaluated.

### 4.8.2 Ignition – H<sub>2</sub>S Release

Ignition is the final means of providing public protection from a release of sour gas the following criteria are met. Ignition does not, by itself, negate the need for continuing with an evacuation. It does however, have an impact on the urgency of the notification or evacuation activities being carried out.

If an immediate threat to human life exists and there is not sufficient time to evacuate the Initial IIZ, PAZ or EPZ, qualified onsite personnel are authorized to ignite the release, and their decision to ignite will be fully supported by Pembina.

### 4.8.2.1 H<sub>2</sub>S Ignition Criteria - Alberta

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

- Although required, evacuation of the response zones has not taken place.
- Monitoring results indicate H2S concentrations in excess of 10 ppm over a 3-minute average in unevacuated portions of the EPZ.
- Monitoring H2S concentrations exceed 1 ppm (1 hour average) in urban density developments.
- Monitoring is not taking place due to weather or other unforeseen circumstances.
- The release cannot be under control in the short term (ignition decisions will be made in consultation with the regulator).

If monitoring levels are declining, then the situation needs to be continually assessed for ignition.

If ignition criteria are met for a sour gas release, ignition must take place within 15 minutes of the decision to ignite.

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### 4.8.2.2 H<sub>2</sub>S Ignition Criteria – British Columbia

In certain circumstances, the ignition of flammable products being released into the atmosphere may be the recommended option for mitigating the risk of human exposure to hazardous substances such as hydrogen sulfide. The following criteria should be considered:

- Safety and health risks to emergency personnel;
- Proximity of release to public areas;
- Availability of air monitoring equipment and personnel;
- Detectable concentration of H2S and/or flammable gases near the source of the release and within the EPZ;
- Weather conditions;
- Duration of the release and potential volume;
- Impacts to livestock; and
- Impacts to other values at risk including property, timber, or infrastructure.

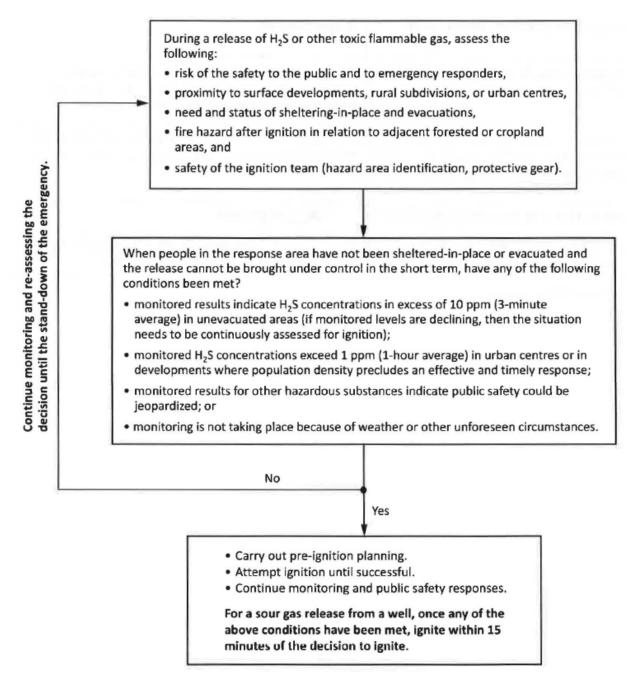
### **Decision to Ignite**

In the event of planned ignition or immediate unplanned ignition:

- Evacuate incident site;
- Relocate hazard boundaries to isolate based on heat exposure and air monitoring data;
- Continue air quality monitoring for health hazards in conjunction with health services;
- Conduct public notifications and shelter or evacuate as directed by health services;
- Prepare to re-ignite if required.

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### 4.8.2.3 Ignition Criteria – Other Jurisdictions



Source: CSA Standard Z246.2-18, Figure A.5

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### 4.8.2.4 Ignition Procedure – Manual / Flare Gun

The ignition team should be certified in HVP product and/or H2S ignition and be properly equipped to ignite the release. Follow ignition procedures: 1 Evacuate all people not directly involved in the actual ignition. Evaluate the terrain for a protected ignition position. When igniting a vapor cloud or large gas 2 cloud, workers must remain as far back from the vapor as possible and sheltered if possible, due to the large forces produced and heat radiated. 3 Make sure an equipped back-up team, ambulance, and first aid are available. A two-person ignition team equipped with and wearing breathing equipment, heat protective 4 clothing, gloves, and hearing protection will be assembled. The ignition team will have monitors calibrated to the product being ignited and will monitor incident area prior to ignition. The attachment of safety lines to ignition team members will be at the discretion of the 5 Response Branch Director who will evaluate terrain, effluent characteristics and routes in and out of the ignition area. Approach the ignition area to approximately 100 metres from plume; monitor the lower 6 explosive limit; if a safe atmospheric environment exists, ignite the effluent from the upwind side. Using a flare shotgun or pistol, aim the flare to a point above the main plume where air and gas 7 have mixed to form a combustible mixture. Approximately 30 flare shells must be available in case some do not work, and for relighting if the fire goes out. The Response Branch Director will advise the Ignition Group Supervisor and ignition team of the possible air shock and heat flash that will occur upon a vapor ignition. Upon firing the flare, the 8 team will assume a physical position that is the most protective – turn away from the flash area and lie flat on the ground or behind a solid barrier. The Response Branch Director will advise the Incident Commander and Emergency Operations 9 Manager once ignition has occurred

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# 4.9 Toxic Gas Toxicity / Exposure Tables

Toxicity tables are available for Hydrogen Sulphide (H2S) and Sulphur Dioxide (SO2) on the next pages (Alberta and British Columbia jurisdictions).

Refer to Safety Data Sheets (SDS) for complete product details, including exposure limits, potential health effects, and response measures.

# 4.9.1 Hydrogen Sulphide (H<sub>2</sub>S)

,	Acute Health Effects of H2S – Alberta
Concentration H <sub>2</sub> S in Air (ppm)	Description of Potential Health Effects
1	A noticeable odour that may be offensive to some individuals. People may temporarily experience mild symptoms of discomfort, including nausea, headache, and irritability due to the odour. Asthma symptoms may worsen.
10-20	An obvious offensive odour. Temporary eye irritation may occur after a single exposure and last several hours. Symptoms include mild itchiness, dryness, increased blink reflex and slight watering. Some people may experience headaches, nausea and vomiting. Symptoms of asthma, bronchitis or other forms of chronic respiratory disease may worsen.
50	A strong, intense offensive odour that may irritate eyes and breathing passages. Eyes may be itchy, stinging, and red with increased blinking, tearing and tendency to rub eyes. Breathing passages could feel tingly or sting, with increased tendency to clear throat and cough. Symptoms of pre-existing respiratory disease may worsen. No permanent injury to eyes or breathing passages is expected unless exposure is prolonged. Odour—sensitive individuals may experience headaches, nausea, vomiting and diarrhea.
100	Initially there is a strong objectionable odour that lessens with prolonged exposure due to olfactory "fatigue." Eyes and breathing passages are often irritated within one hour of exposure. Eyes may be sore, stinging, burning, tearing, redness, swelling of eyelids, and possible blurred vision. Respiratory irritation may include sore throat, cough, soreness or stinging of breathing passages, and wheezing. The symptoms of asthma, bronchitis or other forms of chronic respiratory disease will worsen. Odour may cause headache, nausea, vomiting and diarrhea.
250	There may or may not be an odour present due to olfactory paralysis. Eyes and breathing passages will become irritated within minutes of exposure, and the irritation will worsen with longer exposure. The outer surface of the eyes and inner eyelids will be inflamed, red and sore. Eyes will begin watering and tearing immediately and vision may be blurred. Eyes may be permanently harmed if exposure is prolonged. Respiratory irritation will include sore throat, cough, difficulty breathing, soreness of chest, and wheezing. Asthma symptoms will worsen. People may experience "systemic" effects, including headache, nausea and vertigo depending on duration of exposure.

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	Acute Health Effects of H2S – Alberta
Concentration H <sub>2</sub> S in Air (ppm)	Description of Potential Health Effects
500	No odour is present due to olfactory paralysis. Severe irritation and possible permanent injury to the eyes and breathing passages within 30 minutes of exposure. Lung and breathing passage damage may cause "chemical pneumonia" following exposure if the exposure was prolonged. Systemic effects involving the central nervous system may occur within one hour of exposure and include headache, anxiety, dizziness, loss of coordination and slurred speech. People may lose consciousness or collapse suddenly and die if exposure persists.
750	No odour is present due to olfactory paralysis. Central nervous system effects will be most obvious, and could include anxiety, confusion, headache, slurred speech, dizziness, stumbling, loss of coordination, and other signs of motor dysfunction. People may lose consciousness, collapse suddenly and possibly die, if exposure continues for more than a few minutes. Lung and breathing passage damage will likely cause "chemical pneumonia" among survivors.
1000	Immediate "knock-down" and loss of consciousness. Death within moments to minutes. Immediate medical attention needed if victim is to survive.

Source: Alberta Health Services. Information adapted from Technical Advisory Committee on Public Health and the Oil and Gas Industry, Environmental Public Health Manual for Oil and Gas Activities in Alberta, 2007

H <sub>2</sub> S Toxicity Table – British Columbia			
Concentration in parts per million (ppm)*	Observations and health effects		
<1	Odor threshold, most people smell "rotten eggs."		
3 to 5	Odour is moderate to strong. May create nausea, tearing of the eyes, headaches or loss of sleep upon prolonged exposure – effects are moderate.		
10	Occupational exposure limit (OEL) / Ceiling Limit. At levels above this ceiling, only workers who are trained in the hazards of H2S and are wearing required protective equipment may enter the work area.		
20-150	Nose and throat feel dry and irritated. Eyes sting, itch, or water; and "gas eye" symptoms may occur. Prolonged exposure may cause coughing, hoarseness, shortness of breath, and runny nose.		
150 to 200	Sense of smell is blocked (olfactory fatigue).		
200 to 250	Major irritation of the nose, throat, and lungs occurs, along with headache, nausea, vomiting, and dizziness. Prolonged exposure can cause fluid buildup in the lungs (pulmonary edema), which can be fatal.		
300 to 500	Symptoms are the same as above, but more severe. Death can occur within 1 to 4 hours of exposure.		
>500	Immediate loss of consciousness. Death is rapid, sometimes immediate.		
* 1 ppm = 1 part	of gas per million parts of air by volume		
H2S levels of 100 ppm and higher are considered immediately dangerous to life and health (IDLH).			

Source: WorkSafeBC. Hydrogen Sulfide in Industry Factsheet (R02/10) / PH16

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# 4.9.2 Sulphur Dioxide (SO<sub>2</sub>)

	Acute Health Effects of SO <sub>2</sub> — Alberta						
Concentration SO2 in Air (ppm)	Description of Potential Health Effects						
0.1	Transient bronchoconstriction <sup>1</sup> in sensitive exercising asthmatic individuals that ceases when exposure ceases. <sup>2</sup>						
0.3-1	Possible detection by taste or smell.						
0.75	Transient lung function changes in healthy, moderately exercising, non-asthmatic individuals.						
1-2	Lung function changes in healthy non-asthmatics. Symptoms in asthmatics would likely increase in severity. There may be a shift to clinical symptoms from changes detectable only via spirometry.						
3.0	Easily detected odour.						
6-12	May cause nasal and throat irritation.						
10	Upper respiratory irritation, some nosebleeds.						
20	Irritating to the eyes; chronic respiratory symptoms develop; respiratory protection required						
50-100	Maximum tolerable exposures for 30 – 60 minutes.						
>100	Immediate Danger to Life (NIOSH recommendation).						

- 1.At low levels, bronchoconstriction was generally observed as changes in airway conductance detectable by spirometry rather than as clinical symptoms.
- 2. It should be noted that clinical studies on humans are generally designed to elicit a response and consequently subject study volunteers to challenging conditions such as exercising, mouth breathing, cold, dry air, etc. Real-life responses in asthmatics should be viewed as being individual-specific dependent on severity of asthma, whether the individuals are medicated or not, how cold and/or dry the air is, mouth breathing (vs. nose-breathing, which can act as an effective scrubber mechanism), and exercise.

Source: **Alberta Health Services**. Adapted from: Technical Advisory Committee on Public Health and the Oil and Gas Industry, Environmental Public Health Manual for Oil and Gas Activities in Alberta, 2007

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# 5.0 EXTERNAL SUPPORT AND REGULATORY REPORTING

This section provides information on the regulatory agencies specific to our areas of operations, including the role and authority of regulator(s) / governments agencies, notice and reporting requirements, support capacity during incidents, and contact info, where appropriate.

Pembina recognizes that every incident is unique and will require specific response actions, supports, and resources. Accordingly, notification requirements should be reviewed in context of the specific event, and actioned by the appropriate responder or SME, as required.

Engaging SMEs to advise on notification requirements will ensure the appropriate information is available to all responders.

# 5.1 Alberta

### 5.1.1 Alberta Overview

The Alberta Energy Regulator (AER) is the default lead agency in Alberta as they are the regulator for the petroleum industry – they will engage the expertise, assistance and cooperation of other agencies as determined by the individual incident.

The Government of Alberta, Petroleum Industry Incident Support Plan details the responsibilities of government departments, boards, and agencies designated to provide special services during an emergency. If the emergency escalates in seriousness, the municipality may establish a Municipal Emergency Operations Centre (EOC), and Alberta Emergency Management Agency (AEMA) may establish a Provincial Operations Centre (POC).

During a response when an EOC is required, the AER will establish an EOC at the Local AER Field Office. The AER encourages combining the industry and municipal EOCs into a single Regional (REOC) location. The location of the REOC will be determined by discussion between Pembina and Municipal Emergency Management at a Level 2 Emergency. The AER will expand their EOC if a REOC is not established. This would make for enhanced coordination of all resources engaged in the emergency, as well as easily facilitate a Unified Command System.

### 5.1.2 Establishing a Regulatory Level of Emergency

The AER uses a prescribed matrix to determine the regulatory Level of Emergency. The Liaison Officer (or Incident Commander, where a Liaison Officer is not assigned), supported by the Incident Management Team, and the AER will determine the Regulatory Level of Emergency as soon as possible. First responders, applicable government agencies, and impacted stakeholders must be kept informed of the status of the regulatory Level of Emergency throughout the response.

In Alberta, the AER may consult other applicable government agencies and confirm with the licensee that the emergency downgrade or stand-down is appropriate.

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# 5.1.3 Regulatory Level of Emergency Classification Matrix – Alberta Energy Regulator (AER)

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

Table 2. Likelihood 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.			

\*\*What is the likelihood that the incident will escalate, resulting in an increased exposure to public health, safety, or the environment?

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

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				

Responses   Alert   Level-1 emerger	ite Notification of off-site Notification of off-site management.  viduals Planned and instructive in accordance with the specific
Internal  Discretionary, depending on licensee policy.  Courtesy, at licensee discretion who have requested	management. management.  viduals d Planned and instructive in accordance with the specific Plan(s).  Planned and instructive in accordance with the specific Plan(s).
Internal depending on licensee policy.  Courtesy, at licensee discretion who have requested	management. management.  viduals d Planned and instructive in accordance with the specific Plan(s).  Planned and instructive in accordance with the specific Plan(s).
External public licenses discretion who have requested	accordance with the specific accordance with the specific Plan(s).
	Proactive media Proactive media
Media Reactive, as required. Reactive, as required.	
Reactive as required. Notify AER Field Cen local authority and A public or media is contacted.	AHS if local authority, and AHS
Actions	
On site, as required licensee. Initial responsition of the site of	conse Corporate management Full implementation of incident management ic or appropriately engaged to system.
External  On site, as required by licensee.  On site, as required licensee.	by Potential for multi-agency (operator, municipal, provincial, or federal) response. Immediate multi-agency (operator, municipal, provincial, or federal) response.
Resources	
Internal  Intern	urces  Limited supplemental resources or personnel required.  Significant incremental resources required.
External None. Begin to establish re that may be required	1

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# Alberta

# 5.1.4 External Contact Matrix – Alberta

5.1.4 External Contact Matrix – Alberta																									
NOTES FOR RESPONDERS	Initia	l Respor	nders		Le	ad Agei					S	uppor	ting / C	oordin	ating Ag	encies	and O	ther Go	overnme	ent Cor	ntacts				Other
This matrix provides guidance on conducting	L	L	L	Р	P	L	Р	F	F	Р	Р	Р	Р	Р	Р	Р	Р	Р	F	F	F	F	F	F	R
regulatory and agency notifications.  • Select all Incident Types that apply • Refer to Provincial and Federal Regulator(s) sections for specific instructions (how to contact) • Refer to Asset-Specific Plan for Contacts  LEGEND  L Local / Municipal R Regional P Provincial F Federal  Required Contact  Contact if applicable to incident  INCIDENT TYPE	Ambulance Services	Local Fire Department / Industrial Fire Service	Police / RCMP	AER – Alberta Energy Regulator	AEP – Alberta Environment and Parks	Local Authorities	AHS Alberta Health and Safety	CER – Canadian Energy Regulator	TSB – Transportation Safety Board	AEMA - Alberta Emergency Management Agency	Alberta Occupational Health and Safety (OHS)	Alberta Agriculture and Forestry	Alberta Transportation (EDGE)	Alberta Justice Solicitor General (JSG)	Alberta Communications and Public Engagement (CPE)	Alberta Boilers Safety Association	Workers' Compensation Board (WCB)	Alberta Electric al Administrator	Environment and Client Change Canada (ECCC)	Transport Canada CANUTEC	ERAC – Emergency Response Assistance Canada	Department of Fisheries / Oceans	ISC / RO / FHIHB	Indian Oil and Gas Canada	WCSS – Oil Spill Cooperative
Engage Technical Specialists / SMEs for support	t in de	termin	ing no	otifica	tion r	equire	ment	Respo s to Sup		-	ordinat	ing aı	nd Otł	ner Ag	gencies.	Cons	sider o	lelega	iting n	otifica	ation t	asks t	o rele	vant S	MEs.
Product Release – Liquids	0	0	0	<b>~</b>	<b>~</b>	<	0	>	<	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Product Release – Gas	0	0	0	<b>~</b>	<b>~</b>	<	0	<b>&lt;</b>	<	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Transportation incident involving product release (Roads/Rail/Pipeline/Air/Marine)	0	0	~	~	<b>~</b>	<b>~</b>	0	>	<b>*</b>	0	0	0	<b>~</b>	0	0		0		0	<b>*</b>	~	0	0	0	0
Fire / Explosion / BLEVE	0	<b>~</b>	0	<b>✓</b>	<b>~</b>	<b>✓</b>	>	>	>	0	✓	0	0	0	0	0	0	0	~	0	0	0	0	0	
Medical Emergency – serious injury or fatality	<b>~</b>	0	<b>~</b>	>			0	>	>		<b>~</b>						0						0		
Motor Vehicle Accident – employee	0	0	0								0						0								
Security Related Incident	0	0	<b>~</b>	0	0	0	0	0	0		0			0	0										
Radiation Related Incident	0	~	~	<b>~</b>	0	0	<b>~</b>	0	0	0	0			0	0					0					
Crosses international / interprovincial boundary		0	0	0	0	0		<b>\</b>	<b>\</b>					0											
Involves an E2 regulated substance Review		Review requirements in the ECCC section in the CANADA – Federal Agencies tab. ECCC may be notified by the AER.																							
Impacts rail	Notif	y rail co	mpan	y invol	ved –	details	availal	ble in the	e Area	-/Asset-	specific	plan(s	)												
Involves First Nations and Indigenous groups	Cont	act thro	ugh Pe	embina	a Crisis	Comm	nunica	tion Call-	down	to Abor	iginal an	d Con	nmunit	ty Rela	ations										
Impacts airspace	Requ	iest a No	otice to	o Airm	an (NC	DTAM)	as req	uired – c	an be	request	ed on Al	ER not	tificatio	on call	, see Lea	ıd Age	ncies	tab for	details						

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# 5.1.5 Agency Information

# **Alberta Agencies**

- 1. External Contact Matrix Alberta will describe who you need to call this table will provide the details about Alberta Lead Agencies.
- 2. Ensure you also check Canada Federal Regulator(s) for additional information and directions for immediate and subsequent notifications
- 3. Area specific contacts are available in the applicable Area-/Asset-specific ERP
- 4. Responders are also encouraged to seek further information from relevant Pembina personnel / Subject Matter Expert (SME).

Agency	Roles and Responsibilities During Emergencies What they do / How they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
Alberta Energy Regulator (AER)	<ul> <li>The AER is the default lead agency in Alberta as they are the regulator for the petroleum industry – they will engage the expertise, assistance and cooperation of other agencies as determined by the individual incident.</li> <li>Alert other applicable government and emergency agencies such as Alberta Environment &amp; Parks, Agriculture &amp; Forestry, Health Services, Alberta Emergency Management Agency, and Employment &amp; Immigration - Occupational Health &amp; Safety.</li> <li>Provide representation at the incident site or ICP.</li> <li>In conjunction with Pembina, estimate the product release rate.</li> <li>If required, can issue a Fire Hazard (FH) order, which prevents anyone from entering the hazardous area. This allows legal road and access closure.</li> <li>If required, can request a Notice to Airmen (NOTAM) restricting passage of aircraft over a designated hazardous area</li> <li>If required, can establish an EOC at the local AER Field Centre until Pembina or the local authority establishes a Regional EOC.</li> <li>Ensure Pembina is advising the public of potential danger and conducting evacuation or sheltering in place.</li> <li>If required, ensures Pembina establishes communications links with, and/or provide representation at, the government EOC.</li> <li>Carry out investigations.</li> <li>Notify all participants when the event has concluded and there is no longer any hazard to the public.</li> </ul>	<ul> <li>What must be reported:</li> <li>Any substance release that may cause, is causing, or has caused an adverse effect*</li> <li>Any unrefined product release of more than 2 m3 on lease</li> <li>Unrefined product release off lease</li> <li>Any substance release into a waterbody</li> <li>Any pipeline release or pipeline break (including during pressure testing)</li> <li>Pipeline hits</li> <li>Any uncontrolled gas release of more than 30 000 m3</li> <li>Any well flowing uncontrolled</li> <li>Any fire caused by a flare or incinerator</li> <li>Any fire causing a loss of more than 2 m3 of oil or 30 000 m3 of gas, or causing damage to a wellhead</li> <li>Any fire that occurs on an oilsands site that results in the deployment of major fire-fighting equipment</li> <li>How to report</li> <li>The release should be reported as soon as a person knows (or ought to have known of the release). This means reporting immediately at the first available opportunity.</li> <li>Calls can be made to the 24-Hour Energy &amp; Environmental Response Line at 1-800-222-6514. This is a one call number for AER and Alberta Environment &amp; Parks (AEP)</li> </ul>	After notifying about a release, companies must complete a release report to record the release type, volume, location, any adverse effects on the environment, and other information.  Once completed, the report must be submitted to the appropriate AER field centre within seven days of the incident.  Check with appropriate SME for further details.	Mobile Incident Command Units: can deploy to incidents to establish the base of operations for government agencies working to coordinate the government response to an emergency  Air Monitoring Units (AMU) The AER has two high-tech AMUs (Southern and Northern Alberta) that monitor for SO2 and H2S. May be deployed in response to incidents to monitor the air, detect leaks
	AER may notify the ECCC in the event of incidents involving regulated substances at E2 registered facilities, incidents involving PCBs or any spills on first nations lands, in National Parks, into river or lake systems containing fish, or onto railway right-of-way. This notification does not remove Pembina's requirement to notify ECCC.	<ul> <li>Minimum information to include</li> <li>The location and time of the release</li> <li>A description of the circumstances leading up to the release</li> <li>The type and quantity of the substance released</li> <li>Details of any actions taken and proposed to be taken at the release site to contain, recover, and remediate the release</li> <li>A description of the release location / immediate surrounding area</li> <li>The AER authorizations number(s) if available</li> <li>When preparing the information for the verbal report, it's recommended you use the AER First Call Form – it's understood you may not have all the information to complete the form, but using the available form will help organize your thoughts and make sure you're asking the right questions</li> </ul>		

	Alberta Agencies									
Agency	Roles and Responsibilities During Emergencies What they do / How they can help	Immediate Notice / Verbal Report	Additional Supports							
Alberta Environment & Parks (AEP)	<ul> <li>Spills / Releases / Fish &amp; Wildlife</li> <li>AEP is responsible for ensuring environmental impacts are mitigated during non-energy industry emergencies. They may support during energy industry emergencies, as required or requested.</li> <li>Management of all off-site air/water quality monitoring activities – reports to the Response Branch Director.</li> <li>Determine the area(s) of risk from the gas release; ensure that adequate equipment is available for monitoring.</li> <li>Monitor discharges and mitigate impact of release related liquids entering watercourses.</li> <li>Provide representatives to the incident site or the REOC on a 24-hour basis as required.</li> <li>Monitor impacts on the environment and impacted species and provide direction on recovery efforts.</li> </ul>	The 24-Hour Energy & Environmental Response Line (1-800-222-6514) is a one call number.  See AER for reporting details.	Maintains emergency response resources, including a specialty air monitoring team and equipment used to oversee and verify air monitoring during incident response.  Can act as SME, as required.							
Alberta Health Services (AHS)	<ul> <li>Provides technical expertise on potential health impacts to the public, linkages to health resources and considers provincial health system impacts.</li> <li>AHS will assess the potential for and implications of human health issues and coordinate the provision of information and support to and from AHS.</li> <li>Provide health and medical technical expertise as requested and as appropriate.</li> <li>AHS in collaboration with AHS will monitor and assess the impact of health system and collaboration with AHS and other GoA ministries to communicate knowledge of situation to stakeholders (federal and provincial)</li> <li>AHS will provide scientific advice and recommendations on human health risk assessments when addressing site specific cleanup, site specific de-commissioning and process impact assessments.</li> </ul>	Contact Alberta Health Services (AHS) if the incident has the potential to impact public health (e.g., contaminated drinking water)  Verify that AHS and/or FNIH (First Nations & Inuit Health) have been notified of the emergency – use the 24-Hour Emergency Notification number and email below for all notifications across Alberta:  Phone: 1-844-755-1788  Email: edp@ahs.ca  Check with appropriate Pembina SME for further details on reporting requirements.	AHS may provide safety messaging to the public and will relay situational information to the local health system.							
Local Authorities	County/MD/Municipality Emergency Management Services / Public Works  Emergency Services Act requires Local Authorities to be responsible for emergency planning and for the direction and control of emergency response in their jurisdiction. The plans outline measures and sources of assistance that can be obtained to support Pembina Energy's emergency response effort.  The local authority will provide assistance with resources and manpower as follows and in accordance with their Municipality/County policy:  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.  May assists with arrangements of temporary accommodations for residents who have been evacuated  May assist with the establishing, set up and maintenance of roadblocks as resources and staff training permit / initiates public protection methods as required  Ensures that if available, local emergency services and resources are available to the level that they are trained  May assist with off-site fire protection where accessible  Establish a public information service, including use of the news media to inform and instruct the public of the emergency, as required.	Report immediately at the first available opportunity Contact information available in the applicable Site-Specific Plan.	Activates the Emergency Public Warning System (EPWS) to alert public to life threatening hazards as required according to criteria set out by Alberta Emergency Management Agency (AEMA)  If necessary, declares a "State of Local 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.)  Assist as required with post incident damage assessment							

	Alberta Agencies							
Agency	Roles and Responsibilities During Emergencies  What they do / how they can help  Immediate Notice / Verbal Report							
Alberta Emergency Management Agency (AEMA)	<ul> <li>AEMA is an agency of Alberta Municipal Affairs. They are responsible for coordinating Government of Alberta (GoA) emergency management and assisting local authorities with emergency response, if required.</li> <li>Request that Alberta Emergency Management Agency identify the affected local authorities and implement Emergency Services. The Emergency Management Field Officer may provide assistance in contacting some or all of the local authorities.</li> <li>Coordinate notification of affected government departments, including affected municipalities and Alberta Health Services. Note: The AER or AEP will advise, as required.</li> <li>Coordinate requests for provincial/federal resources.</li> <li>Responsible to assist in the coordination of evacuation and reception plans within municipalities.</li> <li>Provide ongoing situation reports to appropriate provincial officials.</li> <li>Activates a POC if required.</li> </ul>	Notify as indicated by the External Contact Matrix - Alberta  Check with appropriate Pembina SME for further details on reporting requirements.	As requested/available, depending on incident requirements.					
Alberta Occupational Health and Safety (OHS)	<ul> <li>When the response plan has been put into effect Occupational Health and Safety evaluates the safety of occupants at the work site and ensures that necessary precautions are taken to protect the workers' health and safety during the emergency.</li> <li>Ensure that the appropriate employers provide equipment and personnel required on site to monitor worksite hazards.</li> <li>Provide a representative to the incident site and the REOC on a 24-hour basis, as required.</li> </ul>	The Director of Work Site Services Inspection must be notified immediately in the event of a serious accident or death at the work site as to the time, place and nature of the serious accident or death.  Contact OHS and report when: an injury or accident results in death; an injury results in a worker being admitted to a hospital; a "potentially serious" incident that had the potential to cause serious injury, but did not; there is an unplanned or uncontrolled explosion, fire or flood that causes a serious injury or that has the potential to cause a serious injury; there is a collapse or upset of a crane derrick or hoist or; there is a collapse or failure of any component of a building or structure necessary for its structural integrity.						
Alberta Agriculture and Forestry (AAF)	AAF provides technical expertise and information on the impact of an emergency on agriculture and livestock. If a forest fire is associated with the emergency, forestry personnel:  • Maintain emergency response resources to provide firefighting assistance.  • Provide advice and input on the ignition decision.  • Act as the liaison between farming/ranching community and the Government of Alberta (GoA).  • Assist with campground and transient evacuation procedures.  • Notify all forestry personnel of the incident hazards.  • Provide a representative to the incident site and the REOC on a 24-hour basis, as deemed necessary.	Notify as indicated by the External Contact Matrix - Alberta  Check with appropriate Pembina SME for further details on reporting requirements.						

	А	Iberta Agencies	
Agency	Roles and Responsibilities During Emergencies What they do / How they can help	Immediate Notice / Verbal Report	Additional Supports
Alberta Transportation (EDGE)	<ul> <li>Alberta Environmental and Dangerous Goods Emergencies (EDGE)* is a 24-hour emergency response centre for reporting releases, or anticipated releases of dangerous goods during any aspect of transport.         *Formerly Alberta Transportation Coordination and Information Centre (CIC).</li> <li>Manages TDG emergency calls and assesses the severity of dangerous goods incidents.</li> <li>Liaises with AER/AEP and handles inter-departmental communication as needed during energy resources industry emergencies.</li> <li>Provide response support if dangerous goods are released.</li> <li>Provide assistance to emergency response personnel attending the scene of an incident in which dangerous goods are involved or may become a matter for concern.</li> </ul>	AT-EDGE is the first call for all transportation related spills/incidents. If spill is contained on-site, Alberta Transportation will contact the AER. If the spill moves off-site or into a waterbody, Alberta Transportation will contact Alberta Environment and Parks (AEP) and/or Environment & Climate Change Canada (ECCC). Contact Alberta Transportation or the Police if an oil & gas emergency affects a highway designated by 1, 2, or 3 digits (e.g., Hwy 2, Hwy 47, Hwy 837).  Check with appropriate Pembina SME for further details on reporting requirements.	Provide information on the impacts to transportation routes.  Supplies technical information to industry about TDG Regulations and associated standards.
Alberta Justice and Solicitor General (JSG)	Provides intelligence and threat risk assessments in relation to human induced intentional threats/hazards in relation to critical infrastructure and key assets.  Communicate with owners and operators of critical infrastructure and key assets, through normal communication channels, or if necessary through the Emergency Notification System maintained by ASSIST.	Notify as indicated by the External Contact Matrix - Alberta  Check with appropriate Pembina SME for further details on reporting requirements	Maintains list of critical infrastructure and key assets in Alberta
Alberta Communications and Public Engagement (CPE)	CPE (formerly Alberta Public Affairs Bureau) is a cross-governmental department that provides communications, public relations and marketing services to government ministries.  CPE assists the AER and Pembina in keeping the public informed:  Maintains a team of trained Communications and Public Engagement personnel  Coordinate key messaging with the AER  Confirms distribution of AER messaging and provides support as required.  Can assign a Public Affairs representative to the incident.  Staffs a "public media inquiry room", having a publicized telephone number to support the Provincial Operations Centre. This number allows the public and the media to obtain current basic facts about the emergency.  Can activate crisis communications plan and crisis communications response.  Can provide updates on provincial emergencies and recovery information.	Notify as indicated by the External Contact Matrix - Alberta  Check with appropriate Pembina SME for further details on reporting requirements	
ABSA	Alberta Boilers Safety Authority (ABSA) Safety regulator for pressure vessels and equipment in Alberta.	Unsafe conditions, accidents or fires involving pressure equipment are to be reported. Refer to ABSA Information Bulletin IB18-004 for further details on reporting requirements.  Notify as indicated by the External Contact Matrix - Alberta Check with appropriate Pembina SME for further details on reporting requirements	

		Alberta Agencies	
Agency	Roles and Responsibilities During Emergencies What they do / How they can help	Immediate Notice / Verbal Report	Additional Supports
AEA	Alberta Electrical Administrator Safety regulator for electrical incidents / accidents.	Notify as indicated by the External Contact Matrix - Alberta  Reporting of electrical incidents/accidents is governed under Safety Codes Act (Administrative Items  Regulation) – Check with appropriate Pembina SME for further details on reporting requirements.	
Workers Compensation Board (WCB)	WCB has the overall responsibility for the administration of the workers' compensation system in Alberta.	<ul> <li>Immediately report fatalities and serious injuries to the OHS Contact Centre 1-866-415-8690</li> <li>Employer must report to WCB within 72 hours of being notified of an injury/illness that results in or will likely result in: <ul> <li>Lost time or the need to temporarily or permanently modify work beyond the date of accident</li> <li>Death or permanent disability (amputation, hearing loss, etc.)</li> <li>A disabling or potentially disabling condition caused by occupational exposure or activity (poisoning, infection, respiratory disease, dermatitis, etc.)</li> <li>The need for medical treatment beyond first aid (assessment by a physician or chiropractor, physiotherapy, etc.)</li> <li>Medical aid expenses (dental treatment, eyeglass repair/replacement, prescription medications, etc.)</li> <li>Determines whether the injury or illness is caused by work.</li> <li>Responds to all client inquiries forwarded by the Minister and all other elected officials.</li> </ul> </li> </ul>	
Western Canada Spill Services (WCSS)	WCSS maintains spill contingency plans and strategically placed OSCARS (Oil Spill Containment and Recovery units) that are available to member companies in the area.  Pembina is a member of the Western Canadian Spill Services Co-op (WCSS). WCSS manuals provide detailed information, including spill control points for oil spill response in Alberta, BC and Saskatchewan. The WCSS manuals are used in conjunction with the Pembina Emergency Response Plans.	As soon as practicable, contact WCSS for assistance. They can dispatch equipment as necessary based on the specific emergency (wildlife equipment, airboats, winter response units, drum skimmers, containment and recovery equipment, regional OSCAR etc.).	

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## 5.2 British Columbia

#### 5.2.1 BC Overview

British Columbia uses the British Columbia Emergency Response Management System (BCERMS) as a comprehensive management system that ensures a coordinated and organized response to all major emergency incidents. BCERMS utilizes a unified approach to managing emergencies, with personnel trained for any type of emergency through Temporary Emergency Assignment Management System (TEAMS), and not necessarily responding as a representative of a specific government agency.

The first contacts for any emergency will be Emergency Management British Columbia (EMBC) and BC Oil and Gas Commission (OGC) who will determine the seriousness of the emergency, and the actions to be taken. The BC Ministry of Environment and Climate Change Strategy (MOE) may also be a lead agency depending on the incident type.

If the EMBC determines that the emergency is of a minor nature, they may call down the required government ministries/departments for emergency response assistance. The OGC may initiate an EOC if required.

If the EMBC determines the emergency is a major emergency that will require an integrated response (i.e., several ministries/departments), the EMBC may establish a Provincial Regional Emergency Operations Centre (PREOC) manned by TEAMS personnel. The emergency will be managed from this location and Pembina representative(s) will be required to re-locate to assist in directing operations.

Listed below are various government ministries/agencies that may be involved in an emergency response, and their potential responsibilities. The OGC and/or EMBC may assist in calling down the required ministries/departments.

## 5.2.2 Establishing a Regulatory Level of Emergency

The OGC uses a prescribed matrix to determine the regulatory Level of Emergency. The OGC requires Pembina to classify the incident immediately after becoming aware of the event using the OGC's classification matrix and selecting a Regulatory Level of Emergency that most closely describes the most severe event or consequence of the incident.

The Liaison Officer (or Incident Commander, where a Liaison Officer has not been assigned), supported by the Incident Management Team, will determine the Regulatory Level of Emergency.

First responders, applicable government agencies, and impacted stakeholders must be kept informed of the status of the Regulatory Level of Emergency throughout the response.

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## 5.2.3 Regulatory Level of Emergency Classification Matrix – BC OGC

	CC INCIDENT OF ACCIDICATION		PR	OBABILITY OF ESCALATION OR CONTI	ROL	
	GC INCIDENT CLASSIFICATION ATRIX	Uncontrolled; 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
1	<ul> <li>□ Major on-site equipment or infrastructure loss</li> <li>□ Persistent and malicious equipment damage or tampering</li> <li>□ Liquid spill or gas release beyond site, affecting persons, property, or the environment</li> </ul>	Level 3 Incident	Level 3 Incident	Level 2 Incident	Level 2 Incident	Level 1 Incident
2	☐ Major on-site equipment failure ☐ Malicious equipment damage or tampering Liquid spill or gas release beyond site, potentially affecting persons, property, or the environment	Level 3 Incident	Level 2 Incident	Level 2 Incident	Level 1 Incident	Level 1 Incident
3	<ul> <li>□ Major on-site equipment damage</li> <li>□ Kick size in excess of 3 cubic metres or shut-in casing pressure in excess of 1 000 kilopascals</li> <li>□ Persistent / multiple minor vandalism or security incidents</li> <li>□ Liquid spill or gas release on site or potentially beyond site, not affecting persons, property, or the environment</li> </ul>	Level 2 Incident	Level 2 Incident	Level 1 Incident	Level 1 Incident	Minor Incident
4	<ul> <li>☐ Moderate on-site equipment damage</li> <li>☐ Minor vandalism or facility security incident</li> <li>☐ Liquid spill or gas release confined to site</li> </ul>	Level 2 Incident	Level 1 Incident	Level 1 Incident	Minor Incident	Minor Incident
5	□ No consequential impacts	Level 1 Incident	Level 1 Incident	Minor Incident	Minor Incident	No Reporting Requirement

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## 5.2.4 Emergency Notifications – During Emergency

The OGC's Emergency Management Regulation requires Pembina to notify the commission within one hour of becoming aware of an incident classified as a Regulatory Level of Emergency equaling Level 1, Level 2, or Level 3.

## 5.2.5 Emergency Notifications – After A Minor Incident

A permit holder must notify the commission within 24 hours of becoming aware of an incident classified as a Regulatory Level of Emergency equaling a Minor Incident.

For spill related Minor Incidents, EMBC is called and for a Dangerous Goods Incident Report (DGIR) number.

Minor Incidents (both spill and non-spill) are reported through completed by directly entering information into the OGC's on-line reporting tool within 24-hours of discovery.

### 5.2.6 Reportable Spills

Taken from the OGC's Incident Reporting Instructions and Guidelines - July 31, 2014.

Where the permit holder holds or maintains rights, the permit holder must report to the BC Oil and Gas Commission, all spills of materials as identified below:

- A spill or release of any amount of materials which impacts water ways
- Hydrocarbons; 100 litres where the hydrocarbon contains no toxic materials and does not impact water ways
- Produced/salt water; 200 litres where the fluid contains no toxic materials
- Fresh water; 10,000 litres
- Drilling or invert mud; 100 litres
- Sour Natural gas; 10Kg or 15 m3 by volume where operating pressure is >100 PSI
- Condensate; 100 litres
- Any fluid including hydrocarbons, drilling fluids, invert mud, effluent, emulsions, etc. which contain toxic substances; 25 litres

Refer to the BC Environmental Management Act; Spill Reporting Regulations, Schedule "Reporting Levels for Certain Substances" for determining reportable spillage amounts of other substances.

### 5.2.7 Other Reportable Incidents

Taken from the OGC's Incident Reporting Instructions and Guidelines – July 31, 2014.

The Commission's Incident 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 Classification Matrix but still require notification to the Commission 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

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- casing pressure 85% of MA
- 50% out of hole when kicked o well taking fluid (LC)
- · associated spill
- general situation deterioration, i.e. 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, and;
- Security related issues which are relatively minor; such information may be required for tracking and monitoring purposes only.

## 5.2.8 External Contact Matrix – British Columbia

#### **Lead Agencies** Supporting / Coordinating Agencies and Other Government Contacts **Initial Responders** Other **NOTES FOR RESPONDERS** L L Р L Р F F F F R F This matrix provides guidance on conducting regulatory and agency notifications. Health Emergency Management Oceans Select all Incident Types that apply Canada Assistance Refer to Provincial and Federal Regulator(s) Industrial Fire Gas Commission sections for specific instructions (how to **Emergency Management Energy Regulator** contact) **Environment and Client Change** Refer to Asset-Specific Plan for Contacts of Transportation Response CANUTEC - Oil Spill Cooperative Canada of **LEGEND** AGENCY / Department / **BC Ministry** of Local / Municipal R Regional of BC Oil and Emergency Gas Climate Change St MOE –BC Ministry **Provincial** Federal Local Authorities BC Ministry of Indian Oil and BC Required Contact **BC Ministry** Local Fire MFLNRO Contact if applicable to incident HEMBC-8 BCOGC-ERAC -**ISB INCIDENT TYPE Responder Tip:** Engage Technical Specialists / SMEs for support in determining notification requirements to Supporting / Coordinating and Other Agencies. Consider delegating notification tasks to relevant SMEs. Product Release - Liquids 0 0 Product Release - Gas 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Transportation incident involving product release 0 0 0 0 0 0 0 0 0 0 0 0 (Roads/Rail/Pipeline/Air/Marine) **~ ~ ~** ~ ~ ~ 0 Fire / Explosion / BLEVE 0 0 0 0 0 0 0 **~** 0 0 0 0 Medical Emergency – serious injury or fatality **~** 0 **~ ~** 0 0 **✓** 0 Motor Vehicle Accident - employee 0 0 0 0 Security Related Incident 0 0 0 0 0 0 Radiation Related Incident **✓** ✓ ✓ **✓** 0 **✓** 0 0 0 0 0 0 Crosses international / interprovincial boundary 0 0 0 Involves an E2 regulated substance Review requirements in the ECCC section in the Federal Agencies tab. Notify rail company involved - details available in the Area-/Asset-specific plan(s) Impacts rail Involves First Nations and Indigenous groups Individual groups contacted through Pembina's Indigenous Affairs Group Request a Notice to Airman (NOTAM), as required Impacts airspace

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## 5.2.9 Agency Information

## **British Columbia Agencies**

- 1. External Contact Matrix BC will describe who you need to call this table will provide the details about Lead Agencies.
- 2. Ensure you also check Federal Regulator(s) for additional information and directions for immediate and subsequent notifications
- 3. Area specific contacts are available in the applicable Area- / Asset-specific Plan
- 4. Responders are also encouraged to seek further information from relevant Pembina personnel / Subject Matter Experts (SME).

Agency	Roles and Responsibilities During Emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
Emergency Management British Columbia (EMBC)	<ul> <li>EMBC acts as a 24-hour incident reporting line and initiates a government notification fan-out to the OGC and/or MOE, as required.</li> <li>EMBC will contact other government agencies only if directly involved.</li> <li>ECC Victoria will notify the OGC on call Emergency Response Officer and initiate British Columbia's notification of government agencies including MOF, MOE, MOT, Health Unit, WorkSafe BC, affected municipalities and all other level of government and industry, depending on the level of "coding" (notification Code: 1,2,3 is determined by the Lead Agency MOE or OGC); depending on the code level Standard Operating Procedures (SOP's) in ECC will determine who is notified).</li> <li>Provide representatives to help coordinate provincial response as required.</li> </ul>	When a spill occurs, or there is the risk of one occurring, it must be reported immediately by calling 1-800-663-3456. This is known as the initial report or Dangerous Goods Incident Report (DGIR).  The Initial Report must be completed by the responsible person (spiller) if the quantity for the substance of the spill is equal to or greater than the quantity outlined in the schedule of the Spill Reporting Regulation; or if the spill has, or might, impact a body of water.  Additional information on spill reporting requirements is available in the Spill Reporting Regulation of the Environmental Management Act.  When reporting a spill, the following information must be provided to the dispatcher:  The contact information for the individual making the report, the responsible person in relation to the spill, and the owner of the substance spilled  The date and time of the spill  The location of the spill site  A description of the source of the spill  The type and quantity of the substance spilled  A description of the circumstances, cause and adverse effects of the spill  Details of any action taken or proposed to comply with Section 91.2 (2) of the Act (Responsible Persons - spill response fact sheet (PDF))  Names of any provincial, federal, local, and/or first nation government agencies at the spill site  The names of any other persons or government agencies advised about the spill	Note to responders: The following spill reports do not apply to oil or gas activity(ies) governed by the Emergency Management Regulation, B.C. Reg. 204/2013:  • section 5 [updates to minister]  • section 6 [end-of-spill report]; and  • section 7 [lessons-learned report].	

		British Columbia Agencies		
Agency	Roles and Responsibilities During Emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
BC Oil and Gas Commission (OGC)	During emergencies the OGC acts as a liaison between industry operators and EMBC to provide situation updates related to threatened oil and gas assets.  Notified by EMBC of incidents within OGC's jurisdiction.  Oversees the operator's response to an incident.  Establishes communication with the operator.  Confirms incident level with operator.  Confirms ignition decision with operator if time permits.  Confirms media releases to be sent out by operator.  Issues road closure order upon request from the operator.  May send an OGC representative to the incident site and/or Reception Centre  May establish a Government EOC at the OGC office, as required  Confirms downgrade of incident level.	<ul> <li>MINOR INCIDENT (Form A)</li> <li>This form is to be used for incidents which do not meet OGC Level 1, 2, or 3 Classification</li> <li>Minor incidents must be reported to the Commission within 24 hours through the Commission's Online Minor Incident Reporting System.</li> <li>If the minor incident involves a spill, EMBC must also be called at 1-800-663-3456 to receive a Dangerous Goods Incident Report (DGIR) number.</li> <li>LEVEL 1, 2, OR 3 EMERGENCY (Form C)</li> <li>This form is to be used for emergencies which meet OGC Level 1, 2, or 3 Classification. The emergency must be reported to the Commission within 1 hour of the incident via Emergency Management British Columbia (EMBC) by calling 1-800-663-3456 (EMBC one call number).</li> <li>OIL AND GAS ROAD CLOSURES</li> <li>In Emergency situations, permit holders must phone the Commission's 24-hour Incident Reporting line to notify the Commission of needed emergency oil and gas road closures.</li> </ul>	Form D: Permit Holder Post Incident Report Form must be submitted within 60 days for:  1. Any Level 1, 2 or 3 emergency incident: complete Part A-P; or  2. Any pipeline incident (including minor incident): complete Part A-U; or  3. Upon request by the Commission. This report and accompanying documentation can be found on the OGC's website under Emergency Response and Planning and must be emailed electronically to EMP@bcogc.ca	
Ministry of Environment (MOE)	<ul> <li>The Ministry of Environment and Climate Change Strategy (MOE) is responsible for the effective protection, management and conservation of B.C.'s water, land, air and living resources.</li> <li>A Ministry representative – Environmental Emergency Response Officer (EERO) – will provide regulatory oversight and monitor the situation to ensure appropriate response actions.</li> <li>Monitors discharges to the land, atmosphere and all water bodies.</li> <li>May provide a representative to the incident site and the OGC EOC and/or the PREOC on a 24-hour basis. In a larger scale incident, based on risk, additional ministry resources such as Incident Management Teams (IMT) may be deployed to establish unified command and monitor, augment, or take over the response if Pembina fails to take appropriate action as deemed necessary by the EERO or Provincial Incident Commander.</li> <li>May assist to ensure other required agencies and affected stakeholders are contacted.</li> <li>May provide assistance with hazardous waste management.</li> <li>May conduct sampling for monitoring and enforcement purposes</li> </ul>	If a spill occurs, or is at imminent risk of occurring, responsible persons (spillers) must ensure that it is immediately reported to EMBC by calling 1-800-663-3456 (EMBC one call number).  An Initial Report must be made immediately if any of the following occur or is at imminent risk of occurring:  1. If the volume spilled, or likely to be spilled, is equal to or greater than the minimum quantity outlined in the Spill Reporting Regulation.  2. If the spill enters, or is likely to enter, a body of water, the spill is reportable.  A release of natural gas is reportable if:  1. The spill is caused by a breakage in a pipeline or fitting operated above 100 pounds per square inch (psi) that results in a sudden release of natural gas; and  2. The amount of the spill is, or is likely to be, equal to or greater than 10 kilograms (kg).	Note to responders: The following spill reports do not apply to oil or gas activity(ies) governed by the Emergency Management Regulation, B.C. Reg. 204/2013:  • section 5 [updates to minister]  • section 6 [end-of-spill report]; and  • section 7 [lessons-learned report].	As requested / available, depending on incident requirements.

		British Columbia Agencies		
Agency	Roles and Responsibilities During Emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
Local Authorities	Regional Districts and Municipalities have formal Emergency Management Plans, which outline the measures and sources of assistance that can be obtained to protect the public and support emergency response efforts within their jurisdiction. Upon request from the OGC, the Regional District may address emergency response capabilities, expectations and preparedness. If required, the Regional District may activate their emergency plan in order to achieve any of the following:  Dispatch representative(s) to the OGC's EOC, if established  Ensure notification of endangered area residents.  Coordinate Emergency Social Services (ESS).  If necessary, declare a State of Local Emergency Assist in a public information service.	<b>Report immediately at the first</b> Contact information available in the a	• • •	
WorkSafe BC	<ul> <li>Supports injured workers and promotes workplace health and safety across B.C.</li> <li>Evaluates the safety of occupants at the work site, and ensures necessary precautions are taken to protect worker health and safety during the emergency.</li> <li>Ensures that the appropriate employers provide equipment and personnel required on-site to monitor worksite hazards.</li> <li>May provide a representative to the emergency operations centre as required.</li> </ul>	<ul> <li>You must immediately notify WorkSafe BC of any incident that:</li> <li>resulted in serious injury to or the death of a worker,</li> <li>involved a major structural failure or collapse of a building, bridge, tower, crane, hoist, temporary construction support system or excavation,</li> <li>involved the major release of a hazardous substance,</li> <li>involved a fire or explosion that had a potential for causing serious injury to a worker, or</li> <li>was an incident required by regulation to be reported.</li> </ul>	Check with appropriate Pembina SME for further details on reporting requirements.  NOTE: If you're required to report to OGC / EMBC, ensure you also report to WorkSafe BC. Do not assume OGC or EMBC has notified them. Except as otherwise directed by an officer of the Board or a peace officer, you must not disturb an incident scene unless it is necessary to attend to persons injured or killed, prevent further injuries or death, or protect property that is endangered as a result of the accident.	
MFLNRO	Ministry of Forests, Lands, Natural Resource Operations and Rural Developments (MFLNRO)  Responsible for the stewardship of provincial Crown land and natural resources, and for the protection of B.C.'s archaeological and heritage resources. Oversees BC Wildfire Service for the province.  If a forest fire (designated as a provincial emergency only) is associated with the emergency, Forestry Personnel will fight forest fires within their jurisdiction	Notify as indicated by the External Contact Matrix – BC  Check with appropriate Pembina SME for further details on reporting requir	ements.	Maintains up-to-date information on current wildfires of note – these wildfires can also be viewed on the active wildfires map.

		British Columbia Agencies		
Agency	Roles and Responsibilities During Emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
	Ministry of Transportation & Infrastructure (MTI)	Notify as indicated by the External Contact Matrix – BC		
ITM	<ul> <li>Role and function in an emergency would be to manage any impacts to traffic both on numbered highways as well as on side roads in the event of an emergency.</li> <li>Authorizes the closure of provincial transportation routes, including highways and inland ferries, where the safety of the public is at risk.</li> <li>Assists in public notification through the DriveBC website, as well as posting advisories on overhead message boards along designated routes.</li> </ul>	Check with appropriate Pembina SME for further details on reporting requirements.		
немвс	Health Emergency Management BC (HEMBC)     Notifies Health Region of incident and assists Region in preparing for and responding to the incident.     Monitors facilities and developments.     Enforces health legislation.	Notify as indicated by the External Contact Matrix – BC  Check with appropriate Pembina SME for further details on reporting requirements.		Educates the public on public health issues.
MoA	The Ministry of Agriculture assists industry mitigate impacts to agricultural stakeholders/producers during emergencies.  • Maintains various emergency management guides for farmers  • May provide information to support Pembina SMEs with the development of a livestock management / relocation plan	Notify as indicated by the External Contact Matrix – BC  Check with appropriate Pembina SME for further details on reporting requirements.		
Technical Safety BC	Technical Safety BC administers the <i>Safety Standards Act</i> and associated regulations that apply throughout British Columbia, including on lands that are subject to federal regulation for other purposes.  Technical Safety BC may investigate incidents involving regulated work or regulated equipment.	Technical Safety BC is to be notified immediately in cases of Boilers, Pressure Vessels, Piping and Fittings, Electrical & Gas incidents resulting in a moderate, major and fatal injury or moderate, major or severe property damage.  All other incidents must be reported within 24 hours (or as soon as practical). Rail accidents where a person sustains a serious injury or is killed as a result of being on board or getting on or off the rolling stock, or coming into contact with any part of the rolling stock or its contents, or the rolling stock is involved in a grade crossing collision or a derailment, sustains damage that affects its safe operations, or causes or sustains a fire or explosion, or causes damage to the railway, that poses a threat to the safety of any person, property or the environment, or any dangerous good is released.	Additional reporting may be required depending on the incident or involved technology. Check with appropriate Pembina SME for further details on reporting requirements.	
WCSS	Pembina is a member of the Western Canadian Spill Services Co-op (WCSS). WCSS manuals provide detailed information, including spill control points for oil spill response in Alberta, BC and Saskatchewan. The WCSS manuals are used in conjunction with the Pembina Emergency Response Plans.  WCSS maintains spill contingency plans and strategically placed OSCARS (Oil Spill Containment and Recovery units) that are available to member companies in the area.	As soon as practicable, contact WCSS for assistance. They can dispatch equipment as equipment, airboats, winter response units, drum skimmers, containment and recov		

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## 5.3 Saskatchewan

## 5.3.1 Saskatchewan Overview

Upstream oil and gas operators are required to notify and report any incidents that occur in the field to the Government of Saskatchewan's Ministry of Energy and Resources (MER).

## Incident Classification / Level of Emergency

MER has not specified a matrix to be used to classify the regulatory Level of Emergency. The Corporate Incident Classification Matrix will be used for internal classification purposes.

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## 5.3.2 External Contact Matrix - Saskatchewan

	Initi	al Respo	ndore			Lead Ag	encies				Supp	orting / C	oordinati	na Agonsia	os and Ot	har Gaya	rnmont C	antasts		Other	
NOTES FOR RESPONDERS	Initia	ii Kespo	nders	P	Р	P	L	Р	F	F	Suppo	P P	oordinati P	ng Agencie	es and Ot	F	F	F	F	R	
This matrix provides guidance on conducting regulatory and agency notifications.  • Select all Incident Types that apply  • Refer to Provincial and Federal Regulator(s) sections for specific instructions (how to contact)  • Refer to Asset-Specific Plan for Contacts  LEGEND  L Local / Municipal R Regional  P Provincial F Federal  ✓ Required Contact  O Contact if applicable to incident		Local Fire Department / Industrial Fire Service	Police / RCMP	MER – Ministry of Energy and Resources	MOE – Ministry of Environment	Saskatchewan Emergency Management Organization	Local Authorities	Regional Health Authorities	CER – Canadian Energy Regulator NE	TSB – Transportation Safety Board	Saskatchewan OHS Division	WorkSafe Saskatchewan	Ministry of Highways and Infrastructure	Environment and Client Change Canada (ECCC)	Transport Canada CANUTEC	ERAC – Emergency Response Assistance Canada	Department of Fisheries / Oceans	ISC / RO / FHIHB	Indian Oil and Gas Canada	WCSS – Oil Spill Cooperative	hewan
Engage Technical Specialists / SMEs for suppo	ort in de	termini	ng noti	fication	require		Respo to Supp			linating a	nd Oth	er Agend	ies. Cons	sider dele	gating n	otificatio	on tasks t	o releva	nt SMEs.		U
Product Release – Liquids	0	0	0	<b>*</b>	<b>✓</b>	~	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>~</b>	0	0	0	0	0	0	0	0	0	0	
Product Release – Gas	0	0	0	<b>~</b>	~	~	~	~	<b>~</b>	~	0	0	0	0	0	0	0	0	0		
Transportation incident involving product release (Roads/Rail/Pipeline/Air/Marine)	0	0	~	<b>~</b>	~	~	~	~	~	~	0	0	0	0	<b>~</b>	<b>~</b>	0	0	0	0	
Fire / Explosion / BLEVE	0	~	0	~	~	<b>~</b>	~	~	<b>~</b>	~	<b>~</b>	<b>~</b>	0	~	0	0	0	0	0		
Medical Emergency – serious injury or fatality	<b>*</b>	0	<b>~</b>	~	0	0		0	<b>~</b>	~	~	<b>~</b>						0			
			•	•					•	•	•	•									
Motor Vehicle Accident – employee	0	0	0	•				0	•		_	•									
Motor Vehicle Accident – employee Security Related Incident		0		0	0		0	0	0	0	•										
1 /	0		0	·	0	0	0			·			0		0	0					SE
Security Related Incident	0	0	•	0	0	0		0	0	0		0	0		0	0					SD
Security Related Incident Radiation Related Incident	0 0	• •	• <b>*</b> • • • • • • • • • • • • • • • • • • •	0	•	0	0	• <b>→</b>	0	0			0		0	0					SDS
Security Related Incident  Radiation Related Incident  Crosses international / interprovincial boundary	o o o Revie	o v	o   ✓  ✓  orement	o v	o ECCC s	o ection in	o o n the CA	o ✓	o o ✓ – Feder	0	es tab.	0	0		0	0					SDS
Security Related Incident  Radiation Related Incident  Crosses international / interprovincial boundary  Involves an E2 regulated substance	o o o Revie	o w required to the control of the c	o v	o volved	✓ O ECCC s d – deta	o ection in	on the CA	ANADA	o o ✓ – Feder	o o •	es tab.	0			0	0					SDS

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## 5.3.3 Agency Information

## **Saskatchewan Agencies**

- 1. External Contact Matrix Saskatchewan will describe who you need to call this table will provide the details about Lead Agencies.
- 2. Ensure you also check Canada Federal Regulator(s) for additional information and directions for immediate and subsequent notifications
- 3. Area specific contacts are available in the applicable Site-Specific ERP

Agency		Roles	and Responsibilities D	uring emer	gencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
()	1. NOTIFY MER 2. ACTIVATE ER 3. REMEDIATE 4. SUBMIT deta  MER Incident Subject Type	in accordance with the RP where required and or, where necessary, railed information and report to Notification and Report	e requirements of this D take immediate steps to eclaim the affected area reports in the Integrated	irective; see o resolve the to the satisf Resource Inf	action of ER officials; formation System (IRIS) on the incident and the actions taken to resolve the ma  Description	Immediate Telephone Notification by Operator An operator is required to immediately notify MER's Emergency Support line at 1-844-764-3637 on the discovery of any incident listed in Appendix 1 except for the following types of incidents:  Contact damage to a flowline or	IRIS Notification by Operator All incidents listed in Appendix 1 must be promptly reported in IRIS not later than five (5) business days after the discovery of the incident.  1. Refer to the <i>Directive PNG014</i> to ensure you have the required information and	<ul> <li>Provide         representatives to         the site of the         incident, as         required.</li> <li>Provide         consultation         regarding         emergency</li> </ul>
Resources (MER)	General Field Operations	Fire Release or Spill  Blow-out Kicks	All Naturally Occurring Radioactive Materials (NORMS) Oil by-products or oily produced sands All All	All All All All All	Any fires resulting from the operation of a licensed well, facility, pipeline or flowline.  Any volumes  Any volume released that is not approved under GL97-02¹  Any uncontrolled release of gases or fluid from a well  Any controlled diversion of gases or fluid from the well to a flare tank.	pipeline that does not result in a break or leak; or  Any on-lease release of oil, condensate, emulsion or saltwater that is less than 10.0 m3	documentation available.  2. Log in to IRIS and complete the initial incident report process.  Detailed Incident Report Upon successful submission of the	response levels, decisions, activities.  Directly alert other provincial agencies and
of Energy and	Pipeline or Flowline Operation	Contact Damage Break Leak, malfunction of any equipment or a worker error resulting in the escape or release of a substance	All All Oil, salt water, condensate or other product Gas Containing H2S Natural Gas	All All Off Lease On Lease All All	Any contact damage to a flowline or pipeline  Any break to a flowline or pipeline  Any volume  All releases that are > 2.0 cubic meters (m³) of fluid.  Any volume at any concentration.  Any volumes where:  1. the released volume exceeds 30 000 m³;  2. the release is within a road or railway right-of-way; or  3. the release is within 150 metres of any dwelling.	On-lease releases or contact damage that are exempt from immediate telephone notification still require ER notification using IRIS.  Determine the Ministry's Field Office responsible for the area where the incident has occurred; you will be prompted for this information when	initial report a countdown calendar is initiated in IRIS – you must complete the subsequent detailed incident report within 90 days to avoid penalty:  1. Refer to the <i>Directive PNG014</i> to ensure you have the required information and documentation available.	responders
Ministry	Horizontal Directional Drilling (Pipeline/Flowline Installation)	Release, Spill or Frac- Out	Drilling Fluid	All	Any volume	you call the Emergency Support Line.	<ol><li>Log in to IRIS and complete the detailed incident report process.</li></ol>	
Saskatchewan	Drilling / Fracturing Operation Well or Facility Operation	Release or Spill  Break, leak, malfunction of any equipment or intentional / unintentional action resulting in an escape or release	Drilling wastes Fracturing Wastes Oil, salt water, condensate, oil & gas waste, emulsion or product Refined Chemical	All All On-lease Off-lease On-lease	Any volume released that is not approved under GL99-01 <sup>2</sup> Any volume released that is not approved under GL2000-01 <sup>3</sup> All volumes ≥2.0 m³ or 2000 liters requires reporting but only volumes ≥10.0 m³ or 10000 liters require notification  Any volume  All volumes ≥0.5 m³ or 500 liters		Reclamation Report When the initial incident notification indicated that a reclamation report is required, you must submit the report within six months of completing the remediation of the incident.  1. Refer to the <i>Directive</i>	
		Escape or Release	Gas Containing H2S	All	Any volumes where:  1. The concentration of H2S exceeds 0.1 % or 1000 ppm or 1.0 mole H2S/kilomole from solids, liquids or gas during production or transportation (truck or transmission via pipeline/flowline); or 2. The released volume poses a danger to human health, domestic animals, wildlife or the environment.		<ul> <li>PNG014 to ensure you have the required information and documentation available.</li> <li>Log in to IRIS and complete the reclamation report information process.</li> </ul>	

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	Saskatchewan Agencies			
Agency	Roles and Responsibilities During emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
Saskatchewan Ministry of Environment (MOE)	The Ministry of Environment (MOE) provides science-based solutions, compliance and mitigation measures aimed at protecting the environment, and safeguarding communities. They will work with Environment Canada during emergencies to ensure appropriate response, clean up and remediation to product release.  Any spill, release or emergency that may harm the environment or pose a risk to public health or safety must be reported immediately. If you're unsure if a spill is reportable, you should call it in right away.	To report a spill, call the 24/7 Spill Control Centre at 1-800-667-7525.  Provide detailed information about the discharge and discovery, including:  Site location Responsible party Substances involved in the occurrence Surrounding land use Agencies involved in the discharge	For spills exceeding reportable limits as defined by legislation, the responsible party must also submit a Written Spill Report within 30 days.  Forms section "MOE 30 Day Written Spill Report Form" for report.	MOE has a Wildfire operations / management program.
A Local Saskatchewan EMO Authorities	The Saskatchewan Emergency Management Organization (EMO) coordinates activation of provincial resources and equipment.  Activates the Provincial Emergency Operations Centre in the event an emergency escalates beyond the capacity of a local jurisdictional authority.  Provides guidance and support in emergency planning to ministries and agencies.  Operates the Single Engine Aircraft Tanker (SEAT) program, which aids local municipalities to arrange for third-party aerial applicator planes to respond to grass fires and wildfire situations in central and southern areas of the province. Local fire departments may hire a SEAT plane by contacting the Provincial Emergency Communications Centre (PECC).  Provincial Public Safety Telecommunications Network (PPSTN) is a public safety radio network managed through a partnership between the Ministry of Government Relations, SaskPower and the Police. It provides public safety users such as fire departments, police services, emergency medical services, and volunteer search and rescue groups with interoperable radio communications during times of emergency.  Municipalities/Band Councils  Municipalities are obligated to establish emergency plans; their role and function in an emergency may include but is not limited to:  Maintain an emergency line (24/7) where incidents can be reported.  Provide representatives to the site of the incident or Operator Emergency Operations Centre.  Declare a "State of Local Emergency" to exercise special powers  Activate warning systems  Initiate public protection measures as required, and coordinate municipal resource and equipment support  Regional Health Authorities  Establish health and safety levels for hazard releases, substances	Report immediately at the f		
RHA	<ul> <li>Ensures local health facilities are notified of potential impacts from an incident</li> <li>Monitor health effects and ensures appropriate data is collected.</li> </ul>			

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	Saskatchewan Agencies			
Agency	Roles and Responsibilities During emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
Saskatch	ewan Supporting Agencies	_		
WorkSafe Saskatchewan OHS Division	Supports injured workers and promotes workplace health and safety  Evaluates the safety of occupants at the work site, and ensures necessary precautions are taken to protect worker health and safety during the emergency.  WorkSafe Saskatchewan ensures proper work safe activities during an emergency and provides support and conducts investigations of worksite incidents	Notify as indicated by the External Contact Mate Saskatchewan OHS Division and WorkSafe Sask Contact information available in the applicable Report incidents of serious injury, fatalities and reasonably possible. A dangerous occurrence is that did not result in, but could have resulted in worker to be admitted to a hospital as an in-pate The structural failure or collapse of:  A structure, scaffold, temporary falsew All or any part of an excavated shaft, to excavation;  The failure of a crane or hoist, or the omobile;  An accidental contact with an energized The bursting of a grinding wheel;  An uncontrolled spill or escape of a too A premature detonation or accidental The failure of an elevated or suspende The failure of an atmosphere-supplying Check with appropriate Pembina SME for further	atchewan share a reporting hotline. Site-Specific Plan.  dangerous occurrences as soon as is any occurrence at a place of employment at the death of a worker or required a tient for 72 hours or more, and includes:  york or concrete formwork; or unnel, caisson, coffer dam, trench or everturning of a crane or unit of powered and electrical conductor;  kic, corrosive or explosive substance; detonation of explosives; d platform; and g respirator.	
MH&I	Ministry of Highways and Infrastructure assists with road closures and safe highway management.	Notify as indicated by the External Contact Mat		

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## 5.4 Manitoba

## 5.4.1 Manitoba Overview

Manitoba Growth, Enterprise, and Trade (GET) – Petroleum Branch is the Lead provincial government organization in oil and gas industry emergency response in Manitoba.

## Incident Classification / Level of Emergency

GET has not specified a matrix to be used to classify the regulatory Level of Emergency. The Corporate Incident Classification Matrix will be used for internal classification purposes.

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## 5.4.2 External Contact Matrix - Manitoba

	lni	tial Respo	nders		Lea	nd Agend	ies				Supp	oorting / (	Coordina	ating Ag	encies and	Other Go	vernment	Contacts			Other	
NOTES FOR RESPONDERS	L	L	L	Р	Р	Р	L	F	F	Р	Р	Р	Р	Р	F	F	F	F	F	F	R	
This matrix provides guidance on conducting regulatory and agency notifications.  • Select all Incident Types that apply  • Refer to Provincial and Federal Regulator(s) sections for specific instructions (how to contact)  • Refer to Asset-Specific Plan for Contacts  LEGEND  L Local / Municipal R Regional P Provincial F Federal  ✓ Required Contact  O Contact if applicable to incident		Local Fire Department / Industrial Fire Service — see also Office of the Fire Commissioner	Police / RCMP	GET – Manitoba Growth, Enterprise and Trade	MEMO – Manitoba Emergency Measures	Manitoba Environment	Local Authorities	CER – Canadian Energy Regulator	TSB – Transportation Safety Board	Manitoba Regional Health (RHA)	Manitoba Environmental Health	Manitoba Workplace Safety and Health	Manitoba Highways and Infrastructure	Manitoba Hydro	Environment and Client Change Canada (ECCC)	Transport Canada CANUTEC	ERAC – Emergency Response Assistance Canada	Department of Fisheries / Oceans	ISC / RO / FHIHB	Indian Oil and Gas Canada	WCSS – Oil Spill Cooperative	toba
Engage Technical Specialists / SMEs for su	pport in	n determi	ining no	tificatio	n requi	rement	-	onder pportir	-	ordinatii	ng and (	Other Ag	encies.	. Consid	ler delegat	ing notif	fication ta	ısks to re	levant S	MEs.		
Product Release – Liquids	0	0	0	<b>~</b>	<b>~</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>~</b>	0	0	0	0	0	0	0	0	0	0	0	0	
Product Release – Gas	0	0	0	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>~</b>	<b>*</b>	<	0	0	0	0	0	0	0	0	0	0	0		
Transportation incident involving product release (Roads/Rail/Pipeline/Air/Marine)	0	0	<b>*</b>	<b>*</b>	~	~	~	~	*	0	0	0	0	0	0	>	~	0	0	0	0	•
Fire / Explosion / BLEVE	0	~	0	✓	<b>~</b>	<b>~</b>	<b>*</b>	<b>~</b>	<b>~</b>	0	0	<b>*</b>	0	0	<b>✓</b>	0	0	0	0	0		
Medical Emergency – serious injury or fatality	<b>~</b>	0	<b>*</b>	<b>*</b>	0	0		<b>*</b>	<b>~</b>	0		<b>*</b>							0			
Motor Vehicle Accident – employee	0	0	0									0	0									
Security Related Incident	0	0	<b>*</b>	0	0		0	0	0					0								
Radiation Related Incident	0	~	<b>*</b>	✓	<b>✓</b>	0	0	0	0	0	0	0				0	0					
Crosses international / interprovincial boundary	0	0	0	0	0	0	0	<b>*</b>	<b>~</b>				0									
, , ,	Revi	ew requir	rements	in the E	CCC sec	ction in	the CA	NADA -	- Federa	al Agenc	ies tab.											
							h   - 1 - 4	ha Aras	a-/Asset	t-specifi	c plan(s	)										
Involves an E2 regulated substance		fy rail con	npany ir	volved -	– detail	ls availa	ible in t	ile Alea	4 // 13301	- speem	-  (-	,										
Involves an E2 regulated substance Impacts rail Involves First Nations and Indigenous groups	Noti	fy rail con tact throu								•	• \	,	Relatio	ns								

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## 5.4.3 Agency Information

## **Manitoba Agencies**

- 1. External Contact Matrix Manitoba will describe who you need to call this table will provide the details about Lead Agencies.
- 2. Ensure you also check Canada Federal Regulator(s) for additional information and directions for immediate and subsequent notifications
- 3. Area specific contacts are available in the applicable Site-Specific ERP
- 4. Responders are also encouraged to seek further information from relevant Pembina personnel / Subject Matter Experts (SME).

Agency	Roles and Responsibilities During emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
GET	<ul> <li>Manitoba Growth, Enterprise, and Trade (GET) – Petroleum Branch</li> <li>Lead provincial government organization in oil and gas industry emergency response.</li> <li>GET, Petroleum Branch may request involvement and consultation depending on the emergency.</li> </ul>	<ul> <li>You must report if a spill occurs from a well or oil and gas facility if:         <ul> <li>a) The spill occurs on, or spreads to land off the wellsite or the site of the oil and gas facility; or</li> <li>b) The volume of fluid spilled is more than 0.5m³</li> </ul> </li> <li>Notify the district office of the size and location of the spill, plans for disposal of any oilfield waste, and any other information that an inspector may request, no later than 12 hours after the spill is discovered/reported to you.</li> <li>As soon as practicable, notify the owner of the land.</li> </ul>	You must submit a spill report to the district office within 7 days after the day the spill was discovered.	
МЕМО	<ul> <li>Manitoba Emergency Measures Organization (MEMO)</li> <li>Maintain an emergency line (24/7) where petroleum incidents can be reported.</li> <li>Provide MEMO representatives to the site of the incident, as required.</li> <li>Provide consultation regarding emergency response levels, decisions, activities.</li> </ul>			
Manitoba Environment	<ul> <li>Manitoba Environment</li> <li>Assists in evaluating the incident and potential risks from product releases.</li> <li>Assists in monitoring discharges and ensuring appropriate mitigation and response actions are taken.</li> <li>Monitors environmental recovery, when required.</li> </ul>	Report immediately at the first available of Contact information available in the applicable S	• • •	
Local Authorities	Rural Municipalities and First Nations  Municipalities are obligated to establish emergency plans; their role and function in an emergency may include but is not limited to:  • Assist in setting up roadblocks, posting bulletins, and evacuating if required.  • Declare a "State of Local Emergency" if evacuation is required.			

		Manitoba Agencies		
Agency	Roles and Responsibilities During emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
Manitoba Su	pporting Agencies			
ВНА	Manitoba Regional Health Authorities  Manitoba has five RCAs that govern public safety and health care in their respective regions. Public Health Staff work with all health programs and other service organizations to offer care and support in times of disasters or emergencies, such as evacuations related to flood or fire.	Notify as indicated by the External Contact Matrix – Manitoba.  Check with appropriate Pembina SME for further details on reporting requirements.		
Manitoba WSH	Manitoba Workplace Safety and Health Branch (WSH) Supports injured workers and promotes workplace health and safety.  • Evaluates the safety of occupants at the work site, and ensures necessary precautions are taken to protect worker health and safety during the emergency.  • Ensures that the appropriate employers provide equipment and personnel required on-site to monitor worksite hazards.  • Conducts incident investigations, where required.  • May provide a representative to the emergency operations centre as required.	When a serious incident occurs at a workplace, the employer is required to noti (WSH) of the incident immediately, and by the fastest means of communication 1-855-957-SAFE (7233) (toll-free in Manitoba)   204-957-SAFE (7233) (in Winnip The Workplace Safety and Health Regulation defines a serious incident as one:  • in which a worker is killed;  • in which a worker suffers  • an injury resulting from electrical contact,  • unconsciousness as the result of a concussion,  • a fracture of his or her skull, spine, pelvis, arm, leg, hand or foot,  • amputation of an arm, leg, hand, foot, finger or toe,  • third degree burns,  • permanent or temporary loss of sight,  • a cut or laceration that requires medical treatment at a hospital, or  • asphyxiation or poisoning; or  • that involves  • the collapse or structural failure of a building, structure, crane, hoist,  • an explosion, fire or flood, an uncontrolled spill or escape of a hazard  • the failure of an atmosphere-supplying respirator.  When reporting an incident to WSH, please have the following information read  • the name and address of each person involved in the incident;  • the name and address of the employer, or any other employers involved;  • the name and address of each person who witnessed the incident;  • the date, time and location of the incident;  • the apparent cause of the incident and the circumstances that gave rise to If you realize that any of the above information you provided was incorrect or in again with the new information.	available. peg) Select 'Option 1'  lift, temporary support system or excavation, ous substance, or  dy:	

		Manitoba Agencies		
Agency	Roles and Responsibilities During emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
МЕН	Manitoba Environmental Health (MEH) The Environmental Health Branch of the Public Health Division responds to chemical, microbiological and social public health issues.  Monitors the status of, and participates in a coordinated response to environmental health threats;  contributes to provincial responses to environmental health emergencies; co-ordinates the health component of environmental risk assessments.	Notify as indicated by the <i>External Contact Matrix - Manitoba</i> .  Check with appropriate Pembina SME for further details on reporting requireme	nts.	
WCB	Workers Compensation Board (WCB)			
	Manitoba Highways and Infrastructure			
	Manitoba Hydro			
	Manitoba Office of the Fire Commissioner  Provides emergency response to all areas in the province when:  • requested by a municipality or government agency  • an incident is too large/complex for the responding agency to handle  • an effective Incident Command model is not demonstrated  • a lost person GSAR is required  • where the responding Agency does not have the capabilities to handle any hazardous materials incident or CBRN event  • any USAR is required  • any emergency is deemed to be provincial in nature	Notify as indicated by the External Contact Matrix - Manitoba. Check with appropriate Pembina SME for further details on reporting requireme	nts.	Operates the Manitoba CISM network: CISM team 24- hour emergency hotline: 1-888-389-3473

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## 5.5 Ontario

## 5.5.1 Ontario Overview

The only Pembina facility in Ontario is the Corunna Terminal. Pembina is a member of the Chemical Valley Emergency Coordinating Organization (CVECO), which has its own emergency level designations.

See the Site-Specific plan for further information.

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## 5.5.2 External Contact Matrix – Ontario

NOTES FOR RESPONDERS		Initial Responders				Lead Agencies			Supporting / Coordinating Agencies and Other Government Contacts Other						Other									
NOTES FOR RESPONDERS	L	L	L	P	P	Р	L	F	F	Р	P	P	F	F	F	F	F	F	R					
This matrix provides guidance on conducting regulatory and agency notifications.  • Select all Incident Types that apply  • Refer to Provincial and Federal Regulator(s) sections for specific instructions (how to contact)  • Refer to Asset-Specific Plan for Contacts  LEGEND  L Local / Municipal R Regional  P Provincial F Federal  ✓ Required Contact  O Contact if applicable to incident  INCIDENT TYPE		Local Fire Department / Industrial Fire Service – see also Office of the Fire Marshall	Police / RCMP	Ministry of Natural Resources and Forestry	Ministry of Environment, Conservation and Parks	TSSA – Technical Standards/Safety	Ministry of Labour	CER – Canadian Energy Regulator	TSB – Transportation Safety Board	Emergency Management Ontario	Ministry of Transportation	Ontario Hydro / Hydro One	Environment and Client Change Canada (ECCC)	Transport Canada CANUTEC	ERAC – Emergency Response Assistance Canada	Department of Fisheries / Oceans	ISC / RO / FHIHB	Indian Oil and Gas Canada	WCSS – Oil Spill Cooperative					
Engage Technical Specialists / SMEs for suppor	rt in det	terminin	g notifi	cation r	equirer		-	der Tip orting /		ating ar	d Other	Agencies.	Consider	delegatin	g notifica	tion task	s to relev	ant SMI	Es.					
Product Release – Liquids	0	0	0	<b>*</b>	~	<b>*</b>	0	~	<b>~</b>	0	0	0	0	0	0	0	0	0	0					
Product Release – Gas	0	0	0	~	~	~	0	~	<b>*</b>	0	0	0	0	0	0	0	0	0						
ransportation incident involving product release toads/Rail/Pipeline/Air/Marine)	0	0	~	~	~	~	0	~	<b>~</b>	0	0	0	0	<b>~</b>	~	0	0	0	0					
Fire / Explosion / BLEVE	0	~	0	<b>~</b>	~	<b>~</b>	0	<b>~</b>	<b>~</b>	0	0	0	~	0	0	0	0	0						
Medical Emergency – serious injury or fatality	<b>~</b>	0	~	<b>~</b>	0	~	<b>~</b>	<b>~</b>	<b>~</b>	0							0							
Motor Vehicle Accident – employee		0	0								0													
	0	0	~	0	0	0		0	0	0		0												
Security Related Incident		1 .		<b>~</b>	0		0	0	0	0				0	0									
	0	<b>~</b>	<b>✓</b>	•					. 🛦	0	0													
adiation Related Incident	0	0	0	0	0			<b>~</b>	<b>✓</b>	0	0			Review requirements in the ECCC section in the CANADA – Federal Agencies tab.										
Radiation Related Incident Crosses international / interprovincial boundary	0	0	0	0		ection	in the C	*	•															
rosses international / interprovincial boundary	o Revie	o ew requ	o iremen	o ts in the	ECCC s			ANADA	•	l Agenc	ies tab.													
Security Related Incident Radiation Related Incident Crosses international / interprovincial boundary Involves an E2 regulated substance Impacts rail Involves First Nations and Indigenous groups	o Revie	o ew requ fy rail co	o iremen mpany	ts in the	ECCC s d – deta	ails avai	ilable in	ANADA	– Federa ea-/Asset	l Agenc	ies tab.	nunity Rel	ations											

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## 5.5.3 Agency Information

## **Ontario Agencies**

- 1. External Contact Matrix Ontario will describe who you need to call this table will provide the details about Lead Agencies.
- 2. Ensure you also check Canada Federal Regulator(s) for additional information and directions for immediate and subsequent notifications
- 3. Area specific contacts are available in the applicable Site-Specific ERP
- 4. Responders are also encouraged to seek further information from relevant Pembina personnel / Subject Matter Experts (SME).

Agency	Roles and Responsibilities During emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports			
MNRF	Ministry of Natural Resources and Forestry (MNRF)  Provides provincial support when local authorities are unable to cope with the capacity of emergency response operations.	All reporting of incidents involving hydrocarbons is done through the Ontario Spills Action Centre. They can be reached at 1-800-268-6060 or 1-416-325-3000, 24 hours a day, seven days a week.  *One call agency – MNFR receives calls reported through the Ontario Spills Action Centre (24/7 Call Centre). Landowner(s) should also be notified as soon as practicable.	Further written reporting will be required for reportable releases.  See Ontario Petroleum Industry Release Reporting Requirements for thresholds				
MOE & C/F	<ul> <li>Ministry of Environment, Conservation and Parks (MOE &amp; C/F)</li> <li>*Formerly Ontario Ministry of Environment and Climate Change</li> <li>Responsible for spills of pollutants to the natural environment and drinking water.</li> <li>Coordinates and manages provincial effort to detect, identify, contain, clean up and dispose or minimize release of hazardous materials.</li> </ul>	All reporting of incidents involving hydrocarbons is done through the Ontario Spills Action Centre. They can be reached at 1-800-268-6060 or 1-416-325-3000, 24 hours a day, seven days a week.  *One call agency – MNFR receives calls reported through the Ontario Spills Action Centre (24/7 Call Centre).	Further written reporting may be required for reportable releases.  See Ontario Petroleum Industry Release Reporting Requirements for thresholds				
TSSA	Technical Standards and Safety Authority (TSSA) promotes and enforces public safety.  Operates in four sectors in Ontario:  Boilers and Pressure Vessels and Operating Engineers  Elevating Devices, Amusement Devices and Ski Lifts  Fuels  Upholstered and Stuffed Articles	Receives calls reported through the Ontario Spills Action Centre (24/7 Call Centre). Reporting an incident to SAC meets the regulatory requirement of reporting incidents to TSSA.					
Ministry of Labour (MOL)	<ul> <li>Labour and Health and Safety authority in Ontario.</li> <li>Once notified of an incident, MOL will assign an inspector who will respond to the report. The inspector may: <ul> <li>view the incident location</li> <li>take photographs and measurements</li> <li>interview witnesses, co-workers, supervisors, employers and anyone else who might have relevant information (for example, equipment manufacturers)</li> <li>examine and test the equipment involved</li> </ul> </li> <li>The inspector may identify hazards and issue orders, which the workplace parties must address to prevent this type of incident from happening again. Once the investigation is complete, the inspector may recommend that charges be laid when there has been a violation of the OHSA related to a worker fatality or injury. No one should change or disturb the accident scene before an inspector gives permission to do so.</li> </ul>	In workplaces that fall under the OHSA, the employer must immediately r Ministry of Labor. Refer to appropriate Safety SME for further information and reporting red					
	upporting Agencies						
Coordinate	Management Ontario (EMO) Provides emergency framework to all ministries and communities.  Is response when multiple ministries are required for emergency response. Responsible to invoke the Provincial Plan if required.						
	nistry of Transportation	Notify as indicated by the External Contact Matrix - Ontario.  Check with appropriate Pembina SME for further details on reporting requirements.					
	dro / Hydro One						
	Community Safety and Correctional Services Assist the local authorities with emergency response operations, the evacuation of persons and property.						

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## 5.6 Federal Regulator(s)

Canadian Federal Agencies						
Roles and Responsibilities	Immediate Notice / Verbal Report	Subsequent Reporting				
Canadian Energy Regulator (CER)  The Canadian Energy Regulator (CER) – formerly National Energy Board (NEB) – regulates	The CER and the Transportation Safety Board of Canada (TSB) have adopted a single window approach for pipeline event reporting. Call the Transportation Safety Board for pipeline emergencies: 1-819-997-7887 (24-hour hotline)	Section 52 of the OPR also requires the submission of a Preliminary Incident Report (PIR) and a Detailed Incident Report (DIR) "as soon as is practicable". Generally, the initial notification of an incident through OERS will satisfy the PI				
companies that own and/or operate interprovincial or international pipelines. During the mplementation of the CER Act, decisions and orders made by the NEB stand and will be enforceable by the CER; regulations made under the <i>Onshore Pipeline Regulations (OPR)</i> or <i>NEB Act</i> also stand and will be in force until repealed or replaced.	Call the CER for emergencies with operations, a facility, or an activity: 403-299-2773  Call the Spill Report Line for spills from an exploration or production facility under the Canada Oil and Gas Operations Act or the Canadian Energy Regulator Act in the	requirements.  The information required for a DIR must be submitted within 12 weeks of reporting an incident. For complex incidents, companies may request an				
Immediate Notice / Verbal Report The OPR requires companies to notify CER of all incidents relating to the construction, operation, or abandonment of their pipelines. An "incident" is defined as an occurrence	Northwest Territories, Nunavut, or Canadian Arctic Waters: 1-867-920-8130  Companies are also required to report the following information into the Online Event Reporting System (OERS):	extension for submission of a DIR.				
<ul> <li>the death of or serious injury to a person;</li> <li>a significant adverse effect on the environment;</li> <li>an unintended fire or explosion;</li> <li>an unintended or uncontained release of low-vapour pressure (LVP) hydrocarbons in excess of 1.5 m³;</li> <li>an unintended or uncontrolled release of gas or high-vapour pressure (HVP) hydrocarbons;</li> <li>the operation of a pipeline beyond its design limits as determined under CSA Z662 or CSA Z276 or any operating limits imposed by the Board.</li> <li>It is CER's expectation that companies take a precautionary approach to the reporting of events— when in doubt, report. In addition to above criteria, when reporting incidents, also consider whether the event meets any of the following:</li> <li>An Incident that Harms People or the Environment:</li> <li>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;</li> <li>an unintended or uncontrolled sweet natural gas or HVP release &gt;30,000 m³;</li> <li>any unintended or uncontrolled release of sour natural gas or hydrogen sulfide; and/or</li> </ul>	<ul> <li>company contact information;</li> <li>date and time of occurrence and/or discovery;</li> <li>how the incident was discovered (e.g., routine patrol, landowner/public reported);</li> <li>type of incident being reported (e.g. death, release of substance, fire/explosion);</li> <li>type of substance released and initial release volume estimate, if applicable;</li> <li>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.);</li> <li>nearest populated centre;</li> <li>GPS coordinates of the event in decimal degrees;</li> <li>facility name/pipeline name;</li> <li>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);</li> <li>initial narrative information on the component that failed, if applicable; and</li> <li>affected lands (e.g., restricted to company owned land, right-of-way, private land, crown land).</li> <li>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.</li> </ul>					
<ul> <li>A Rupture:</li> <li>an instantaneous release that immediately impacts the operation of a pipeline segment such that the pressure of the segment cannot be maintained.</li> <li>A Toxic Plume:</li> <li>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).</li> <li>If an event meets any of the above, you must also notify the Transportation Safety Board of Canada (TSB). The CER may, on its own or working with other government bodies (e.g., the TSB), open a formal investigation of an event.</li> </ul>	The goal of the initial phone notification is to allow the relevant agencies to mobilize a response to an incident, if required. 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.					

Canadian Federal Agencies						
Roles and Responsibilities	Immediate Notice / Verbal Re	port	Subsequent Reporting			
Transportation Safety Board of Canada (TSB)  TSB operates a 24/7 emergency hotline. They investigate and provide support to partner agencies such as CER and Transport Canada during air, marine, pipeline, and rail transportation incidents.	Call the TSB reporting hotline as soon as possible after discovery of the steps indicated in Section CER Immediate Notice / Verbal Reporthe OERS as well as by telephone.  Information required by the TSB is separately identified in the OER company to ensure the information required by the TSB is entered 30-day timeline. OERS will automatically forward this information required by the TSB is entered.	rt. Information must be entered in  S. It is the responsibility of the into OERS in accordance with their	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.			
Emergency Response Assistance Canada (ERAC)						
Pembina has registered Emergency Response Assistance Plans (ERAPs) with ERAC which provides first response to road, rail, and stationary tank incidents involving flammable gases, or for rail incidents involving flammable liquids (>450L).						
Transport Canada CANUTEC	In the event of an emergency involving dangerous goods, call CAI	NUTEC at 1-888-CAN-UTEC (226-8832)	, 613-996-6666 or *666 on a cellular phone.			
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 staff do not go to the site of an incident, however, should on-site assistance be required, CANUTEC can assist in the activation of industry emergency response plans. CANUTEC may also provide communication links with the appropriate industry, government or medical specialists.  Responders are encouraged to review the Emergency Response	<ul> <li>A person sustaining injuries that required immediate medical treatment;</li> <li>An evacuation of people or their shelter in place;</li> <li>The closure of a facility used in loading or unloading of dangerous goods;</li> </ul>					
Guidebook 2016 (available online).	1 Explosives	Category Any qu	uantity			
	2 Gases: Compressed, deeply refrigerated, liquefied or dissolved under pressure	Not applicable Any qu				
	3 Flammable and combustible liquids	Tor II Any qu	uantity			
	4 Flammable solids	III 30 L or	r 30 kg			
	5 Oxidizing substances; organic peroxides	A or B Any qu	uantity			
	6 Poisonous (toxic) and infectious substances 7 Nuclear substances that are radioactive	1	of ionizing radiation greater than the level established in section 39 "Packing and Transport of Nuclear Substances Regulation, 2015"			
	8 Corrosives					
	9 Miscellaneous products, substances or organisms dangerous to life, health, property or the environment when handled	II or III, or without 30 L or packing group	r 30 kg			
	Refer to Part 8 of the TDG Reporting Requirements for further information, including details to include in the report, r	nister within 30 days after the day on	which the initial report was made. Refer to Part 8 of the TDG Reporting Requirements			

Canadian Federal Agencies					
Roles and Responsibilities	Immediate Notice / Verbal Report	Subsequent Reporting			
Environment and Climate Change Canada (ECCC)  Pembina has several sites that meet the criteria for a Canadian Environmental Protection Act (CEPA) Environmental Emergency (E2) Plan. These locations have storage vessels and/or tanks that contain reportable flammable or toxic substance(s) in amounts specified by E2 regulations, either in a pure form or as a flammable mixture.  Note: ECCC may be contacted by the applicable provincial regulator. Despite this, if you meet the reporting requirements, you must still independently report to ECCC.	You must report any environmental emergency that:  a) has or may have an immediate or long-term harmful effect on the environment; b) constitutes or may constitute a danger to the environment on which human life depends; or c) constitutes or may constitute a danger in Canada to human life or health.  A verbal notification is to be made as soon as possible under the circumstances to the authorities identified in the Release and Environmental Emergency Notification Regulations (Notification Regulations) under CEPA 1999.  Guidance for responders: Refer to the written report section for details on what to include in the verbal report –it is understood you may not have all the details during the initial notification.  The person notifying Environment and Climate Change Canada must take all reasonable measures consistent with the protection of the environment and public safety, including preventing, mitigating or recovering from any negative effects on the environment or on human life or health.  The person must make a reasonable effort to notify any member of the public who may be adversely affected by the environmental emergency.	A written report should be made as soon as possible under the circumstances to the Regional Director, Environmental Enforcement Directorate, Enforcement Branch, Department of the Environment, in the region where the environmental emergency occurs.  Information to Be Included in the Written Report of Environmental Emergency  1) The name, civic address and telephone number of the person who is providing the written report.  2) If applicable, the name of the entity or person that is responsible for the facility that is associated with the environmental emergency.  3) If applicable, the North American Industry Classification System codes, consisting of at least four digits, that describe the operations at the facility that is associated with the environmental emergency.  4) The date and time of the environmental emergency and the location where it occurred, including the latitude and longitude, expressed in decimal degrees to five decimal places, and, if applicable, the civic address of that location.  5) The name, CAS registry number and, if applicable, UN number of the substance that was released or likely to be released.  6) The quantity of the substance that was released or likely to be released or, if the quantity cannot be determined, an estimate of it.  7) If the substance is or was in a container system, a description of the container system, including a description of its condition.  8) A description of the harmful effects or potential harmful effects of the environmental emergency on the environment and on human life or health, including effects on any surrounding hospitals, schools, residential, commercial or industrial buildings, highways, public transit infrastructure, parks, forests, wildlife habitats, water sources or water bodies.  9) A description of the circumstances of the environmental emergency and its cause, if known, and of the measures taken to mitigate any harmful effects on the environment or on human life or health.  10) A description of all measures taken or planned to be taken to preven			

Canadian Federal Agencies						
Roles and Responsibilities	Immediate Notice / Verbal Report	Subsequent Reporting				
Royal Canadian Mounted Police (RCMP)	RCMP must be notified in the case of a fatality; request that the RCMP contact the Medical Examiner.	Dependent on situation – refer to appropriate Pembina SMEs (Safety, Security)				
<ul> <li>Federal police agency. Notify as required for initial response and support.</li> <li>May provide the following supports during emergencies:</li> <li>Notifies applicable lead agencies (i.e., AER, OGC, EMBC) and other municipal authorities / authorities with jurisdiction of reported release</li> <li>Provides security and traffic control, and supports public protection measures; may assist in initial area isolation, roadblocks, evacuation, etc. Conducts incident investigation, as required.</li> <li>Clarifies responsibility when fatalities are involved and assist the coroner in the event of a fatality in which there is no criminal wrong-doing.</li> </ul>	The RCMP must also be notified in the case of lost, stolen or misplaced explosives, radioactive materials or infections substances.	Security				
Department of Fisheries and Oceans (DFO)	Any amount of hydrocarbons entering a waterway frequented by fish or occupied by waterfowl is deemed in contravention of the Federal Fisheries Act and must be	Dependent on situation – refer to appropriate Pembina SMEs				
DFO monitors impacts to the environment and species; they investigate all reports of marine pollution in Canada in conjunction with other federal departments.  DFO may send personnel to the site if there has been or could be an impact to fish or fish habitat(s).  They can also aid in search and rescue operations.  Note: DFO may be initially notified of incidents by ECCC.	reported to DFO.	(Environmental or Regulatory).				
Indigenous Services Canada (ISO)						
<b>Indigenous Services Canada (ISC)</b> partners with First Nations communities to prevent, prepare for, respond to, and recover from emergencies.						
Regional Operations (RO)						
<b>Regional Operations (RO)</b> liaise, communicate, cooperate, coordinate and collaborate with First Nations and public, private, and non-government sector partners in support of on reserve emergency management service delivery.	Dependent on situation – refer to appropriate Pembina SMEs for direction (Aboriginal, and other LARE service areas).					
First Nations and Inuit Health Branch (FNIHB)						
<b>First Nations and Inuit Health Branch (FNIHB)</b> carries out the Public Health preparedness and response related to natural and man-made disasters including communicable disease control and environmental public health services. FNIHB also provides non-insured health benefits, extending coverage for medical transportation, pharma-care, medical devices, and crisis mental health support via funding of community-based counsellors and crisis support workers.						
Indian Oil and Gas Canada (IOGC)  IOGC is an operating agency within Indigenous Services Canada (ISC) that manages and regulates oil and gas resources on First Nation reserve lands.	As soon as practicable, notify IOGC of any unforeseen incident that occurs during operations that results, or could result, in bodily injury or death, or in damage to First Nation lands or property. Spill reporting: Off-lease spills, and on-lease spills greater than 1 m³ must be reported immediately	Dependent on situation – refer to appropriate Pembina SMEs for direction (Aboriginal).				

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# 6.0 COMMUNICATIONS PLANNING

At the onset of an incident, communication needs must be immediately identified and then monitored throughout the response to ensure effective incident management.

#### 6.1 Internal Communication

### 6.1.1 Within Emergency Response Organization(s)

Internal communication refers to communication within or between Pembina emergency response personnel and/or Pembina's ICS organization(s) – i.e., how we communicate with each other. This includes response specific communications taking place at or between the incident site, the SPCC, the **Incident Command Post (ICP)**, and the **Corporate Emergency Operations Centre (CEOC)**. Status updates and the sharing of incident related information will follow the ICS chain of command.

Communications related to the response that go beyond the responders are external and are only to be conducted by the appropriate response roles within the ICS organization given the appropriate authority and approvals.

#### 6.1.1.1 Communications Equipment

Pembina will ensure appropriate communications equipment is made available to key response personnel. Equipment may include, telephones, two-way radios, computer networks, and/or the **Virtual Command System (VCS)** tool. Outside resources should be procured to assist with equipment needs, as required.

Any site-specific radio and communications infrastructure existing within an area owned either by Pembina, or through mutual aid, should be integrated into the response communication plan. Specific telephone lines may be identified for incoming and outgoing purposes.

### 6.2 External Communication

Pembina is responsible for communicating vital information about an emergency to the public and the appropriate government agencies. This may include notifications to area stakeholders directly affected by the incident, families in the event of an injury or accident, and/or the public outside the area through the media.

External communications may impact the public's perception of the incident as well as their perception of the company's response to the incident.

It is vitally important that all external communications are brief, appropriate to the audience, and factually accurate.

#### 6.2.1 First Responders

Pembina will ensure appropriate communications equipment is made available to first responders, as required, to facilitate communications during emergencies.

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### 6.2.2 Government and Regulatory Agencies

The Liaison Officer is responsible for ensuring that the appropriate government agencies are notified and kept informed throughout the emergency. If requested, the Liaison Support role in the CEOC may assist the Liaison Officer with this task.

The appropriate regulator, environmental agency, local authority, and regional health authority will be notified. If an urban centre is located within the EPZ, that urban centre must also be notified.

#### 6.2.3 Members of the Public and Affected Parties

If an incident occurs that has the potential to impact beyond the facility boundary or pipeline **right-of-way**, Pembina will determine the Corporate Incident Classification and the Regulatory Level of Emergency, where applicable. Pembina will then notify the public within the EPZ. Members of the public within the EPZ must be advised of any public protection measures required.

The Public Protection Branch Director, with the assistance of the Notification Group and Rover/Evacuation Group, is responsible for ensuring that the public within the EPZ are notified and kept informed throughout the emergency.

#### 6.2.4 Media

Media communications are conducted in accordance with Pembina's *Crisis Communications Plan*. The Public Information Officer (PIO) at the ICP coordinates with the Public Information Support (PIS) role, filled by a member of the Crisis Communications Team in Calgary, to ensure information for external communications is reviewed and approved by the Incident Commander prior to release to employees, the general public, and the media.

Clarification must be established immediately with contractors, suppliers, or partners as to who the Pembina spokespersons are. Pembina employees must not respond to media requests, but instead refer them to the Public Information Officer or the Media Relations line.

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# 7.0 HAZARDS / EMERGENCY TYPES

This section has been developed to support an "All Hazards" approach to emergency management. The provided response actions may be applied to incidents at any site operated by Pembina and should be reviewed in context of the specific event, and actioned by the appropriate responder, as required.

Responders are reminded to follow Pembina's *Initial On-Site Actions* when responding to emergencies:

	1	
		EVACUATE – STOP, THINK. PROTECT YOURSELF
	1	> Identify the correct PPE.
	_	Evacuate or have people shelter in place.
		➤ Is it quicker to move upwind or cross wind to get to a safe location?
		PROVIDE MEDICAL AID
		DO NOT put yourself or anyone else in harm's way when providing medical
		attention.
		Contact 911 and request emergency services. Provide them with the location and
	2	nature of the emergency, # and condition of affected people, and call-back
(+)		number.
		Provide First Aid to any persons injured if safe to do so.
		Record information about casualties and provide this information to emergency
		services personnel when they arrive.
		Maintain care of casualties throughout.
		RAISE THE ALARM
		Assume command of the current situation.
	_	> Call the Pembina Emergency Response Line to activate the call down procedure:
('') ('')	3	1-800-360-4706. Provide them with: Location and nature of emergency - what BU
•		is involved, call-back number, and a time for the Activation Conference Call. This
		must be within 30 minutes of the incident occurring
		ASSESS THE SITUATION
		Perform a size-up.
		Identify an initial hazard area – identify and prioritize hazards.
(53.5)	_	Consider impacts to members of the public
(****)	4	➤ Allocate tasks for people to conduct such as: conducting a head count, and
		dispatching people to meet emergency services (any actions that can stabilize the
		incident and prevent it from getting worse).
		<ul> <li>If safe to do so, act to shut down, isolate, control or contain the incident.</li> </ul>
		SECURE THE SCENE
The state of the s		Control access into and out of the impacted areas.
A THINK AND A STATE OF THE PARTY OF THE PART	5	Maintain a list of areas cleared.
		<ul> <li>Record details of any person entering or leaving a potentially hazardous area</li> </ul>
		CONTROL THE SITUATION
		Ensure people are briefed on the hazards in the area.
(1018)	6	Continue to monitor the hazardous area.
44.		<ul> <li>Provide regular updates to your supervisor on the status of the incident.</li> </ul>
	L	7 From the regular aparties to your supervisor on the status of the modelit.

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# 7.1 Preparing for Operational Upset / Failure

#### **Hazard Assessment**

Management of hazards and risk is a continuous process, and it is the foundation of all safety, environment, and security elements.

Risk is managed by actively identifying hazards, assessing consequences and probabilities, and evaluating and implementing prevention and mitigation measures. Risk assessments are conducted for ongoing operations, for projects, and for products in order to identify and address potential hazards to personnel, the public, the environment, and Pembina assets.

Health and safety hazards need to be identified, assessed, controlled, and communicated to all impacted personnel prior to the commencement of any work and/or visits. Hazards that are not identified, assessed, eliminated, or controlled have the potential to result in loss, including workplace injuries, property damage, environmental impacts, or operational down time.

Often emergency response efforts will require Non-Routine tasks to be carried out by personnel. Pembina's Hazard Identification, Assessment, and Control Standard requires workers, who have identified the work they are about to perform as Non-Routine, to develop a Task Hazard Assessment (THA) or procedure to control the hazard. A THA is an evaluation used to document job steps and health and safety hazards. Potential hazards are to be identified for each step of the task, and controls are to be listed.

#### **Mitigation and Leak Detection**

Pipeline routes are chosen to avoid geologically unstable areas and to minimize environmental impact. To further mitigate the risk and impact of an incident, pipelines are designed so that they can be safely shut down and that segments can be isolated by installing block valves at strategic intervals along the system. Where appropriate, extra safety precautions such as increasing pipe wall thickness or depth-of-cover are undertaken to help mitigate risks.

Inspectors oversee all phases of pipeline construction. Each weld is assessed using appropriate technology to ensure they are sound and prior to installation, Pembina coats the entire external surface of pipelines with materials that are designed to safeguard against environmental damage and corrosion. As part of pipeline operations, a very low-voltage electrical current called cathodic protection is applied to the external surface of the pipeline, which further protects the pipe from external corrosion. Once construction is complete, above-ground warning signs are erected to clearly mark pipeline right-of-way so that the risk of third-party damage to the below-ground pipeline is minimized.

Pembina's Operators monitor our pipeline flow and leak detection software 24 hours a day, 365 days per year. Through our Integrity Management Program, we use in-line inspection technologies such as magnetic flux leakage to detect corrosion and ultrasonic devices to detect cracks. Our extensive geotechnical database is designed to help minimize integrity hazards associated with ground movement and watercourse channeling.

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# 7.2 Product Release – Liquids

This section will provide initial actions and general response strategies - Detailed spill response procedures can be found in the *Corporate Spill Contingency Manual* and applicable Area, or site-/system Plan(s).

In the event of a spill (liquids release), responders should follow Pembina's Initial On-Site Actions:

- 1. Evacuate Stop, Think. Protect Yourself
- 2. Provide Medical Aid
- 3. Raise the Alarm
- 4. Assess the Situation
- 5. Secure the Scene
- 6. Control the Situation

Containment and recovery efforts focus on minimizing the effects of the spill on the surrounding areas. Should it become apparent that the entire spill cannot be contained; procedures for the protection of sensitive areas will be considered.

#### 7.2.1 Land Based Containment

A spill is considered land based if it is into any area lacking the presence of water at the time of the release. Land based receptors include agricultural land, private residences, public facilities, crown land, forested areas and rights-of-way (ROW).

Ge	neral Response Actions
	Initial On-Site Actions.
	Evacuate and complete any required notifications;
	Isolate the spill source and complete lock out/tag out operations, if safe to do so (refer to Pembina
	policies and procedures for additional information);
	Assess the properties and hazards of the released product, refer to Safety Data Sheet (SDS);
	If required promote ventilation;
	Based on chemical composition, wear the appropriate PPE (refer to SDS for additional information)
	Assess the release and determine the extent of visual impacts;
	Block any open drainage ports using universal absorbent and/or plastic booms or available non-
	reactive materials;
	Recover any free liquids utilizing suction equipment and remove any residuals using universal
	absorbent materials if safe to do so;
	Place a plastic tarp over solid chemicals, such as powders or granular, to prevent airborne
	distribution and to prevent leachate should chemical come in contact with water; and
	Shovel solid and contaminated material in an empty drum and seal for disposal.
	Review Corporate Spill Contingency Manual.

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#### 7.2.2 Wetland Containment

Wetlands are classified as areas of land covered by or saturated with water for enough time to support water tolerant vegetation, promote development of water altered soils and other biological activities adapted to wet environments. Wetlands are considered sensitive receptors due to their species diversity, sensitivity to disturbance and importance in maintaining a healthy watershed.

In the event of a spill (liquids release), responders should follow Pembina's:
<ul> <li>☐ Initial On-Site Actions.</li> <li>☐ General Response Actions</li> <li>☐ Review Corporate Spill Contingency Manual</li> </ul>
7.2.3 Open Water Containment  Open water is classified as any water body with primarily wind driven surface movement and negligible subsurface flow. This can include large open water wetlands, lakes, reservoirs or dugouts.
In the event of a spill (liquids release), responders should follow Pembina's:
<ul> <li>□ Initial On-Site Actions</li> <li>□ Review Corporate Spill Contingency Manual</li> </ul>
7.2.4 Flowing Water Containment Receptor Types: This type of containment encompasses any other water body with flowing water along a defined route or channel, not influenced by wind driven movement. This includes rivers, creeks, streams, tributaries, ephemeral watercourses and ditches.
In the event of a spill (liquids release), responders should follow Pembina's:
<ul> <li>□ Initial On-Site Actions</li> <li>□ Review Corporate Spill Contingency Manual</li> </ul>
7.2.5 Crude/Condensate Rail Incident  Pembina is a member of Emergency Response Assistance Canada (ERAC). ERAC acts on behalf of  Pembina to develop, submit, update, and respond to the requirements of the Pembina Emergency  Response Assistance Plan (ERAP) submitted to and approved by Transport Canada. ERAC provides a  network of experienced, trained Technical Advisors, Remedial Measures Advisors, and Response Teams

For LPG incidents (road, rail, and stationary tanks), ERAC's scope of work includes technical advice, containment, transfer, flaring, and purging. For flammable liquids incidents (rail transport), ERAC's scope of work includes technical advice, containment, confinement, transfer, and fire suppression.

who respond to rail, road, and stationary tank Liquefied Petroleum Gas (LPG) emergencies and

ERAC is Pembina's provider of emergency preparedness and response for rail transportation incidents.

Flammable Liquids rail transport emergencies.

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If a railcar(s) derailment occurs that cause environmental threat, the following action	ses a leak, the car to flip on its side, or poses a safety or ons shall be taken:			
<ul><li>□ Contact Incident Commander (On-Call Area Supervisor) and inform of the incident.</li><li>□ Activate the Plan</li></ul>				
☐ Contact ERAC at 1-800-265-0212				
☐ Provide the following information:				
☐ Name & telephone number	☐ Environmental and climatic conditions			
☐ Location	☐ Container information, e.g., tank type, size and status of tank (damaged, leaking, etc.)			
☐ Incident Location	☐ ERAP No. from shipping document			
☐ Incident type/description	☐ Consignor			
☐ Injuries	☐ Carrier			
☐ Rail shut down	☐ Company responsible for tank			
☐ Evacuation of public required or underway	□ Name and contact number of Pembina Incident Commander			

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## 7.3 Product Release – Gaseous

In the event of a gaseous product release responders should follow Pembina's *Initial On-Site Actions*:

- 1. Evacuate Stop, Think. Protect Yourself
- 2. Provide Medical Aid
- 3. Raise the Alarm
- 4. Assess the Situation
- 5. Secure the Scene
- 6. Control the Situation

### 7.3.1 HVP

The primary hazard associated with HVP products is direct exposure to flame. Upon release, immediate ignition could occur resulting in a jet fire, or a dense gas cloud which could travel to a delayed ignition source, resulting in a flash fire or an explosion. Vapors may travel to the source of ignition and flashback.

	Noise of escaping vapour – hissing or roaring noise coming from the pipeline Slight mist of ice or frozen area on the pipeline Plume of white spray – condensation and freezing moisture in atmosphere Moisture forming on windshields Stalling vehicles or racing diesel engines		An unusual odour or scent of gas Dense white cloud or fog Discolored or dead vegetation Yellow-stained snow, which may indicate NGL accumulation under the snow Continuous bubbling in wet, flooded area A rainbow or sheen on water				
Gen	eral Response Actions						
	Initial On-Site Actions.						
	Assess the situation and identify additional hazard						
	Flammable / toxic vapors, fire / flashback, temperatures / freezing, lack of oxygen surrounding						
	the leak. The danger from fire / explosion exist within the upper explosive limit (UEL).	is wn	ien an escaping vapour mixes with air to				
		l swit	ches cell phones lighters furnaces / hot				
	<ul> <li>Ignition sources can include vehicles, electrical switches, cell phones, lighters, furnaces / hot water heaters, static electricity, earthworks construction near escaping gas (e.g., stones / rocks being moved violently against other hard objects).</li> </ul>						
	<ul> <li>Topography / low lying areas such as river valleys, coulees where plume / drifting gases may</li> </ul>						
	collect.						
	as the incident progresses.						
	☐ Determine how to respond to any persons injured or trapped. If safe to do so, treat and/or evacuate injured						
	Account for all personnel on site. Establish person	nel a	ccountability system for onsite responders. If				
	safe to do so, conduct search and rescue procedur		·				
	If safe to do so, shutdown, isolate and depressuriz	e and	d/or contain the release.				
	In the event of an LPG $\!\!\!/$ NGL release, allow liquids						
	Initiate initial monitoring for toxic or explosive gas and down wind.	mixt	ures. Warn people in the immediate vicinity				

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	Initiate public protection measures in the EPZ, as required.
	If an evacuation has occurred, set up a Reception Centre and address evacuee needs and concerns.
	Coordinate evacuation beyond EPZ with the local authority, if required.
	Determine the Corporate Incident Classification and the Regulatory Level of Emergency, where
	applicable, and complete any required notifications/reporting.
	Notify local authorities and health authorities, as required.
	Notify Police and provincial highway authorities for approval to close and detour municipal and/or
	provincial highways, as required.
	Request a Fire Hazard Order, Closure Order, or NOTAM, as required.
	Develop an Incident Action Plan.
7.3	.1.1 Sour gas release
	addition to the above General Response Actions:
	Prepare for ignition.
	Place an Ignition Team on standby or activate if ignition criteria are met.
	Continue air monitoring for H <sub>2</sub> S/SO <sub>2</sub> after ignition takes place.
7.3	.1.2 Release contained inside a diked area
In a	ddition to the above General Response Actions:
	·
	Do not walk into a product contaminated area.
	Apply film forming firefighting foam on the spill area to suppress vapors, if available.
	Test the area for explosive atmosphere with explosion meter, if spilled material is flammable.
	Flush spilled material to water treatment facilities.
ш	Use vacuum trucks to remove pools of spilled material if safe to do so.
7.3	.1.3 Release into tank farm where tanks have heaters and fire tubes
In a	ddition to the above General Response Actions:
П	Chutdown aguinmant
	Shutdown equipment.  Be aware of indirect heat from the fire tubes
ш	be aware of multerl fleat from the fire tubes

### 7.3.2 Liquified Petroleum Gas

The primary concern in responding to a Liquified Petroleum Gas (LPG) release is to ensure the safety of all on-site personnel and public that could be affected, especially if the release increases in size or is ignited – removing potential ignition sources to avoid detonation of the vapour plume is critical.

LPG vapors are heavier than air and will tend to collect in low lying areas, well cellars, and sumps if winds are calm. LPG bullets are fitted with self-closing valves. If a sudden drop in feeder line pressure occurs, the valve closes. However, a release may continue if it is because of a small tear or pin hole in a line or fitting where the pressure drop is insufficient to actuate the valve. In this case, manually closing the valve may stop the release, if the release is downstream of the valve. The most appropriate course of action if the release cannot be safely stopped is to evacuate, isolate the release site and allow the LPG to escape and disperse into the atmosphere. Residual environmental consequences associated with an LPG /butane release are unlikely.

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Pembina is a member of Emergency Response Assistance Canada (ERAC). ERAC acts on behalf of Pembina to develop, submit, update, and respond to the requirements of the Pembina Emergency Response Assistance Plan (ERAP) submitted to and approved by Transport Canada. ERAC provides a network of experienced, trained Technical Advisors, Remedial Measures Advisors, and Response Teams who respond to rail, road, and stationary tank Liquefied Petroleum Gas (LPG) emergencies and Flammable Liquids rail transport emergencies.

For LPG incidents (road, rail, and stationary tanks), ERAC's scope of work includes technical advice, containment, transfer, flaring, and purging. For flammable liquids incidents (rail transport), ERAC's scope of work includes technical advice, containment, confinement, transfer, and fire suppression.

ERAC provides emergency response support to road, rail and stationary tank incidents ( $\geq$ 450L) involving flammable gases (Class 2.1) including:

-	Propane	UN 1978
•	Butane	UN 1011
-	Propylene	UN 1077
-	Butylene	UN 1012
•	Isobutene	UN 1969
-	Isobutylene	UN 1055
•	Butadiene 1.3 (stabilized)	UN 1010

	Isolate release location (e.g. mobilize roadblocks) for 1.6 km around incident site.
	Assess hazards and remove potential ignition sources, if safe to do so.
	Stop product flow and isolate source, if possible / safe to do so.
	Protect the public by advising residents to evacuate a safe distance (more than 1.6 km from incident site).
	Inform first responders (e.g., police/sheriff, fire, or ambulance) about the hazards.
	Do not direct water at spill or source of leak.
	Notify the appropriate oil and gas regulator(s) and complete any required notifications/reporting.
	If the release cannot be safely stopped, keep the release site isolated and allow the LPG to escape and disperse into the atmosphere, if safe to do so.
	Airspace above release can be closed by NAV CANADA using a Notice to Airman (NOTAM)
	If possible, monitor air quality at incident site to ensure safety of responders.
For	transportation related incidents, notify ERAC, if required:
	Activate the Plan.
	Contact ERAC at 1-800-265-0212 and provide the following information:

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	Location	Container information, e.g., tank type, size and status of tank (damaged, leaking, etc.)	
	Incident Location	ERAP No. from shipping document	
	Incident type/description	Consignor	
	Injuries	Carrier	
	Road or rail shut down	Company responsible for tank	
	Evacuation of public required or	Name and contact number of Pembina Incident	
	underway	Commander	

The following identify the responsibilities of the ERAC and Pembina Pipeline when there is an LPG emergency and the ERAP has been activated:

	Accountability		
Detail	1st Responder	Pembina	ERAC
Security at accident site – First responders; ERAC on arrival	Х		х
Technical advice to first responders			X
Conduct site assessment to identify hazards			X
Implement emergency response procedures outlined in the Plan			X
Conduct formal accident assessment			X
Notify appropriate regulatory authorities		Х	
Contact/evacuate residents		Х	
Transfer dangerous goods from damaged containment			Х
Replace means of containment for dangerous goods		Х	
Conduct media related tasks		Х	
Conduct post-accident review			Х
Provide transportation to incidents that cannot be accessed by land		Х	

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# 7.4 Fire/Explosion

In the event of a fire or explosion responders should follow Pembina's Initial On-Site Actions:

- 1. Evacuate Stop, Think. Protect Yourself
- 2. Provide Medical Aid
- 3. Raise the Alarm
- 4. Assess the Situation
- 5. Secure the Scene
- 6. Control the Situation

#### IMPORTANT - YOUR PERSONAL SAFETY IS PRIORITY.

Pembina personnel are not expected or required to perform the duties of professional firefighters. Local first responders will be engaged to respond as required to incidents involving fire / explosion hazards. For all types of fires, Pembina personnel must not attempt to fight any fire unless they have been trained, are competent to do so, and are using the correct extinguishing equipment with the goal of preventing a small fire from becoming a large fire.

#### **General Response Actions**

	Initial On-Site Actions
	Ensure personal safety. Don appropriate personal protection equipment and reassess requirement
	as the incident progresses.
	Complete a visual hazard assessment; assess for further hazards (e.g., subsequent explosions from
	chemical storage areas, gas migration).
	Call for assistance, as needed: Industrial Firefighting service providers, Emergency Services, Backup
	Personnel, Response Specialists. Guide fire-fighting personnel to the scene upon arrival.
	Determine how to respond to any persons injured or trapped. If safe to do so, treat and/or evacuate
	injured
	Account for all personnel on site. Establish personnel accountability system for onsite responders. If
	safe to do so, conduct search and rescue procedures for anyone missing.
	···
	Isolate the area and allow fire to burn out or try to extinguish fire if safe to do so.
	Internal investigation will be conducted and submitted to Pembina Site Supervisor.
	, , , , , , , , , , , , , , , , , , , ,
	•
	Ensure all extinguishers are recharged after the fire.
7 /	1.1 Storage Tanks and Vessel Fires
	_
ın a	addition to the above General Response Actions:
	In the event of a fire or explosion involving product storage tanks or vessels, additional regulatory
	response actions may be required. Refer to <u>Section 5.0 External Support and Regulatory Reporting.</u>
<b>-</b> /	1.2. Constitution Figure
	4.2 Small Grass Fires
In a	addition to the above General Response Actions:
	If safe to do so, use shovels, backpack water sprayers and/or ABC type handheld portable fire
	extinguishers. Use only a defensive strategy. If grass fires enter coulees, river or creek banks or

forests, do not continue.

☐ Call for assistance, as needed: Industrial Firefighting service providers, Emergency Services, Backup

Personnel, Response Specialists. Guide fire-fighting personnel to the scene upon arrival.

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7.4.3	Large Grass /	<sup>/</sup> Forest Fires

	addition to the above General Response Actions:
	Do not attempt to extinguish. Call for assistance, as needed: Industrial Firefighting service providers Emergency Services, Backup Personnel, Response Specialists. Guide fire-fighting personnel to the scene upon arrival.
	For large threatening grass/forest fires that have the possibility of involving pipelines, facilities, plants, or well sites etc., contact the appropriate Wildfire Reporting Line and/or local forest protection office for assistance.
7.4	1.4 Wildfire
the	dfires are uncontrolled fires noted for the speed at which they can spread from their original source, ir potential to change direction unexpectedly, and ability to jump gaps such as roads, rivers and fire aks. Wildfires have been deemed a high-risk hazard to our operations.
In a	addition to the above General Response Actions:
	Do not attempt to extinguish. Call for assistance, as needed: Industrial Firefighting service providers. Emergency Services, Backup Personnel, Response Specialists. Guide fire-fighting personnel to the scene upon arrival.
	For large threatening grass/forest fires that have the possibility of involving pipelines, facilities, plants, or well sites etc., contact the appropriate Wildfire Reporting Line and/or local forest protection office for assistance.
	If there is potential for the main access to be cut off by a wildfire, alternative emergency evacuation routes (two-way access) should be identified and developed including potential helicopter landing sites for remote sites.
	☐ Identify adjacent waterways that can be accessed by boat if applicable

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# 7.5 Extreme Weather / Natural Hazards

This section includes guidelines and response information for the types of natural hazards deemed higher risk to Pembina based on our areas of operations. In the event of extreme weather or natural hazards, responders should follow Pembina's *Initial On-Site Actions*:

- 1. Evacuate Stop, Think. Protect Yourself
- 2. Provide Medical Aid
- 3. Raise the Alarm
- 4. Assess the Situation
- 5. Secure the Scene
- 6. Control the Situation

### 7.5.1 Flood

In t	he event of a flood, responders should follow Pembina's:
	Initial On-Site Actions
	Ensure personal safety. Don appropriate personal protection equipment and reassess requirement as the incident progresses.
	Complete a visual hazard assessment; assess for further hazards.
	Act to shut down, isolate and de-pressure equipment, as required. Do not attempt to shut off electricity if water is already present. The combination of water and live electrical current can be lethal.
	Evacuate area as directed.
7.5	5.2 Severe Storms
pro	rere weather can happen anywhere, at any time. Severe weather can include hazardous conditions aduced by thunderstorms, including damaging winds, tornadoes, large hail, flooding and flash oding, and winter storms associated with freezing rain, sleet, snow and strong winds.
	Initial On-Site Actions
	Assess potential hazards and take actions to reduce the danger of equipment falling and causing other damage during a storm. Secure everything that might be blown around or torn loose. Flying objects can injure people and damage property.
	If you are in a vehicle, stop the vehicle away from trees or power lines that might fall on you. Report where you are and stay there.

Subsequent actions depend upon potential hazards and the type of damage anticipated.

For a complete list of workplace hazards resulting from extreme weather and the associated safe work practices and response actions, please see Pembina's *Safety Management Program* on *The Pipeline*.

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# 7.6 Security Related Incident

As p mai Sec any	part of the Security Management Program, the Security Threat Response Plan (STRP) assists magement in responding to and mitigating the identified threat in an effective and efficient manner. urity countermeasures are employed appropriately at each threat level to enhance the security of Pembina asset that may be under threat of harm. Contact Pembina Corporate Security for actual or pected incidents involving:
	Bomb threats / suspicious packages; Active protest / civil disobedience; Trespass / vandalism (in progress) Kidnap and ransom
	5.1 Bomb Threats
Ref	er to the Bomb Threat Form in Appendix - Forms
via	nb threats are delivered in a variety of ways, which include, but are not limited to, threats received the telephone, voicemail, mail, or electronic mail (email). It is important to obtain as much brimation from the threat as possible.
Wh	en a bomb threat is received by telephone, the person receiving the call attempt to do the following:
	Remain calm and courteous when receiving the call. If possible, it is desirable to have more than one person listening in on the call; the use of a coded signal may assist in this instance.
	If the phone is not currently set to automatically record all calls, activate the telephone recording unit if it is available.
	Keep the caller on the line for as long as possible.
	Determine the exact location of the device, type, description, and detonation time.  Ask the caller to repeat the message.
	Document every word (if possible) spoken by the caller.
	Make notes and ask questions as per the Bomb Threat Form.
	Note the phone number if caller ID is available on the phone.
Afte	er the caller hangs up, the person receiving the threat should do the following:
	Make additional notes on the Bomb Threat Form.
	Based on the content of the call, if there is an immediate concern for the loss of life or injury, call 911.
	Do not communicate by means of two-way radio communication or cell phone.
	Immediately notify your Supervisor of the threat, by landline telephone or in person, who will in turn notify the Sherwood Park Control Centre (SPCC)
	Do not discuss the matter with anyone else, unless authorized to do so.
	Complete detailed notes of the call as soon as possible.
If a	threat is received via a voice message left on a recording device, the person to first listen to the

investigations.

message shall do the following:

☐ Do not delete the voice message. Recordings are to be retained for the Police to conduct technical

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	Tersion no
	Save the message.
	, , , , , , , , , , , , , , , , , , , ,
	clear plastic bag, and secure accordingly until it is turned over to the police. Do not write on the
_	plastic bag.
ш	Remember to not let anyone else handle the cassette or plastic bag, as custodianship will be
П	important in any potential future court proceedings.
	Do not communicate by means of two-way radio or cell phone.  Immediately notify your Supervisor of the threat, by landline telephone or in person, who will in
	turn notify the Sherwood Park Control Centre (SPCC)
	Do not discuss the matter with anyone else, unless authorized to do so.
	If the voice message was recorded digitally on a recording device, do not allow anyone else access to
	the machine, unless instructed otherwise by senior management.
pei	e most likely recipients to receive a threat by mail are those who open mail, whether it is mail room rsonnel or the addressee. If the mail is opened and a threat is identified, the person should do the lowing
	Do not handle the mail and/or package any more than is necessary. Pick up the mail and/or package
	only by the edge. Be mindful of any possible suspect fingerprints on the item.
	Place all papers and envelopes associated with the threat in a clear plastic bag. Do not write on the
	plastic bag.
	Do not allow anyone else to handle the written document(s).
Ш	Immediately notify your Supervisor of the threat, by landline telephone or in person, who will in
	turn notify the Sherwood Park Control Centre (SPCC)
If a	threat is via electronic mail (email), the recipient shall do the following:
	Do not delete the email.
	Save the message.
	Do not communicate by means of two-way radio or cell phone.
	Immediately notify your Supervisor of the threat, by landline telephone or in person, who will in
	turn notify the Sherwood Park Control Centre (SPCC)
	Do not discuss the matter with anyone else unless authorized to do so.
Ш	If senior management is in agreement, notify the Information Technology departments about the
	circumstances. In consultation with Information Technology, print a copy of the message.
Th	reat Response Analysis
Ad	dressing the following types of questions should allow for a determination as to whether there is a
	h or low risk of a threat being carried out, or danger of another event occurring. In the event of a
thr	eat, decisions need to be made with respect to searches, evacuations, and shut-down of operations.
	Are all details regarding the event known?
	What was the mode of delivery?
	In the case of a threat received by telephone or otherwise: when was the threat received, and how
	much time has passed since receipt of the threat?
	Is there a date, time, and/or place specified?
	Who and what would be the possible targets?
	Why are the targets at risk?

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	Who would be the possible adversaries, and what skills and/or advantages do they have?
	What is the motivation of a potential adversary?
	Could recent events be a factor (for example, union disputes, environmental hearings, etc.)?
De	cision to Evacuate
The	e decision to search and/or evacuate rests on the threat and/or event analysis and other factors such
as 1	the following:
	A foreign object is found, or a suspicious mail or package has been received.
	A threat is received after business hours.
	The threat or event is believed to be credible.
	There have been recent events at company assets or other similar types of companies.
	There is a known current, intense anger towards Pembina.
	The threat has indicated that a timed device is set to detonate.
	The threat reveals a targeted location.
	The site in question is not remote, and personnel are onsite.

#### **Decision to Re-Occupy**

☐ Police consultation, depending on the circumstances.

Once an evacuation has been completed, local management, site supervisor, and/or the Incident Commander, in consultation with the Emergency Operations Manager, Security Response Team, and/or police, will, at some point, have to decide when the property can be re-occupied. However, where a suspicious object has been found, the police (if not already present) will attend immediately and assume control of the response of the bomb or suspicious package, until the object is declared safe. The Incident Commander should remember that there may be another suspicious object somewhere else if all searches were not completed prior to the initial discovery of an object; and, in consultation with the police, should therefore have the remainder of the property searched before considering re-occupation.

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# 7.6.2 Facility Searches

If during a threat event, where no suspicious and/or foreign object has been noted, a search may be warranted to provide assurance that there is no such object on the property. Search activities should be conducted in accordance with the advice and guidance of law enforcement professionals.

Pol	lice's Role in Searches
	s often assumed that it is a police responsibility to conduct searches; however:  The police do not know the layout of the property and the various places where a device could be concealed.
	The police, unlike company personnel, will not know what is out of place. As a result, they may miss something that is not readily suspicious.
	It is not the role of the police to make a determination regarding plant evacuation and/or shut-down, etc. While this is done in consultation with the company, the ultimate decision rests with management.
	If a foreign object is found, the police will be responsible for dealing with the object.
sea adv pro dra spe	order to ensure the safety of all those concerned, personnel will be expected to conduct a <b>visual</b> arch only of their work area. A search coordinator should identify search teams and team leaders in vance, and assign areas to search on a site drawing and/or sketch of offices, operations areas, and operty. Once an area has been searched, the search team leader can record the results on the site awing and/or sketch, and provide the site drawing and/or sketch to the search coordinator. This will seed up the search process and, in the event of a suspicious object being found, proper untermeasures can be initiated.
Sea	archers must be cautioned of the following:
	be moved or dismantled by the police.
	Never touch or move a suspicious object.  If instructed, only remove personal effects such as bags, handbags, and sport bags, brought to work on the day of the event.
	Do not allow two way radios or cell phones to be operated in the area as signals may trigger device detonation.
	Highly stressed persons should not be involved in a search.  Immediately report any suspicious object(s) found to the search team leader.
The	e Incident Commander will:
	Initiate the search after a review of the known facts and a threat evaluation has been completed.  Assign a Search Coordinator to oversee the search process and provide regular updates to the Incident Commander.
	Determine if an evacuation of the facility, or a portion of the facility, is required.

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The	The Search Coordinator will:			
	As necessary, divide the facility and/or offices into sectors, and have individuals familiar with each sector search the area. The size of areas to be searched will indicate the size of Search Teams needed to complete the searches.			
	Receive regular status updates from the Search Teams.			
	Provide regular status updates to the Incident Commander.			
Sea	rch Teams will:			
	Begin search at the entrance to the room. Stand still and look around the room. Note the contents of the room and make a quick assessment of areas which may need special attention.			
	Look for any unusual lights (including small light sources such as light emitting diodes (LEDs), which are often used in bombs).			
	Listen carefully for any unusual noises, particularly a ticking or a type of whir (humming and/or buzzing) sound.			
	If anything unusual is seen, the searcher or team should advise the Search Coordinator If nothing unusual is seen or heard, begin searching the area.			
	Move in one direction around the area.			
	Look for unusual and/or suspicious articles and areas recently disturbed			
	Conduct three sweeps of the area:			
	☐ The first sweep is to work around the edges of the room: visually checking the walls from top to bottom			
	☐ The second sweep should cover the furniture and the floor. Furniture should not be moved and drawers should not be opened.			
	☐ The third sweep should cover the ceiling, where objects could be concealed. Start at one corner and systematically search the whole surface.			
	Complete the search and if nothing has been found, notify the Search Coordinator so that the sector can be marked as "clear" on the search plans.			
	Continue searches until the whole area has been cleared.			
No	No Suspicious Object Found			
If no explosive device or suspicious object is found, the Incident Commander should advise upper management accordingly about returning to a normal state				
Sus	picious Object Found			
If a □	suspicious object is located, the Search Coordinator and Incident Commander should: Remind searchers not to touch or move the object.			
	Evacuate all personnel from the surrounding area and ensure that the area is secure.			
	Inform the police of the suspicious object.			
	After the device has been removed, there may be a need for further searching to ensure there are no other devices.			

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7.6	5.3 Suspicious Packages			
If a	package or envelope is suspicious:			
	Evacuate personnel from the surrounding area.			
	Ensure the area is secure.			
Wa	rning Signs			
	mine all packages that are received, and give envelopes a light feel. There are a number of signs that			
ma but	y lead you to become suspicious of a letter or parcel. By themselves these signs may be innocent, perhaps a combination of a few will cause for a cautious approach. The following are warning signs t an article of mail or a received package may be suspicious:			
	Excessive Postage			
	Incorrect titles or titles with no names			
	Misspelling of common words			
	Oily stains or discoloration			
	No return address			
	Excessive weight			
	Rigid envelope			
	Lopsided or uneven envelope			
	Protruding wires or tinfoil			
	Visual distractions			
	Foreign mail, air mail, and special deliveries			
	Restrictive marking, such as "Confidential", "Personal" etc.			
	Handwritten or poorly typed addresses			
	Excessive securing materials, such as masking tape or string etc.			
Che	emical or Biological Agents			
оре	picious Mail or Packages may have no physical identifiers or cause any concern, until they are ened. These threats include, but are not limited to chemical agents, biological agents or radioactive nts.			
cou to s	emical agents or toxic compounds that are contained within a suspicious piece of mail or package ld be disseminated simply opening the package. The onset of symptoms can be very rapid. Reaction such an event needs to be rapid so as to prevent the spread of contamination and treat the affected son(s). Usually, these types of packages are identified by:  Unusual odors (gas) or			
	Stains that have been caused by a leaking liquid.			

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Suspicious mail / packages containing biological agents are very difficult to detect. Normally, these agents are colorless and odorless, and may be invisible. Mail and packages that are even remotely suspected of having these types of agents should not be handled.

<u>Note</u>: Should a person at any time suspect mail or a package to contain a chemical or biological agent there is the option of refusing to accept delivery and reporting the circumstances to a Supervisor.

If a piece of mail or package is onsite and is suspected of containing a harmful agent, the following steps

#### **Chemical or Biological Agents suspected of Being Onsite**

sho	ould b	pe taken:	
	Cov	er the package or envelope with a plastic sheet (if available); otherwise leave the package where	
	it is.		
	Turr	off local fans or ventilation units in the building – shut down the HVAC system.	
	Evad	cuate the room closing all doors and windows.	
	Ask	co-workers and others to leave area.	
	Stop	anyone from entering the area.	
	Immediately notify your Supervisor.		
	Isolate the area where the package is located.		
	Isola	ate yourself in another area that has a telephone and wait for emergency responders to arrive.	
	Mak	se a list of all people that were in the area and who may have been exposed. If you have	
	toud	ched a letter or package that possibly contains a harmful substance and / or you have gotten	
	som	e on your clothes:	
		Wash your hands well with soap and water.	
		Shower with your clothes on. If showering is not possible, wash well in a sink.	
		Undress and seal your clothes in a clear plastic bag, as they can be tested for the presence of	
		contaminants.	
		Shower or wash again and put on fresh clothes.	

#### **Decision to Re-Occupy**

In the event that an evacuation has taken place due to a chemical or biological threat, local management, site supervisors, and/or the Incident Commander, in consultation with the Emergency Operations Manager, Security Response Team, local law enforcement, and the appropriate health authority, will decide when the property can be re-occupied.

### 7.6.4 Managing Complaints and Threats

Your safety is paramount – If at any time you feel unsafe, remove yourself from the situation.

If you receive complaints, or experience threats while carrying out emergency response related activities, advise your supervisor at once, or as soon as practicable. Public interaction / conflict resolution is managed through Pembina's *Security Management Program*. Refer to *The Pipeline* for further details.

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# 7.7 Other Emergencies

### 7.7.1 Imminent Worker Safety Issue

Worker health and safety is managed through Pembina's *Safety Management Program* – for a complete list of workplace hazards and associated safe work practices and response actions, please see *The Pipeline*.

### 7.7.2 Medical Emergencies

This section has been developed to address the requirements and methods of dealing with an emergency medical situation which requires more than basic first aid and most likely transport of an injured or sick worker to hospital.

Initial On-Site Actions
Complete a visual hazard assessment of the incident scene.
Ensure personal safety. Don appropriate personal protection equipment and reassess requirement as the incident progresses.
Conduct first aid within qualification limits until a health care professional takes over.  Notify Medical Aid as required (ground or air ambulance) and provide/request the following:
<ul> <li>Your name and location (GPS coordinates if appropriate based on location).</li> <li>Description of injuries and assistance required.</li> <li>Mechanism of injuries.</li> <li>What response is coming and when.</li> <li>Situational awareness to responders including description of hazards in the area.</li> <li>Directions to your location.</li> </ul>
Stay on the line until you receive clearance to hang up.  A crew vehicle should be sent to the nearest road crossing to await and direct incoming medic.  When the medic(s) arrive on site, they will assume assessment and treatment. Crew first aiders should continue to support and help the situation by supporting the medic(s).
The patient may be loaded into the emergency transport vehicle and taken to a landing zone to meet with an incoming helicopter, intercepting ambulance or directly to hospital.
For injury or medical evacuation, notify the next of kin as to status and hospital that will receive the injured (prepared statement). All fatality reporting through Police.
Ensure the incident site is not disturbed for any required investigations.
ork at the scene of an injury or fatality may not be resumed until permission has been obtained from Medical Examiner's Office, the police, and appropriate provincial Occupational Health and Safety

#### 7.7.2.1 Air Ambulance Activation

Department.

Refer to District/System Plan(s), as applicable, for established air ambulance activation information and directions.

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## 7.7.3 Motor Vehicle Accident (MVA)

veh	nicles, or company operated roads.
	Initial On-Site Actions
	Move the vehicle out of the traveled roadway, if it is clear, safe and legal. Turn off the ignitions of the cars involved, if safe to do so. Turn on your emergency flashers.
	Secure the area and make sure that people are not out in traffic (in harm's way) to prevent potential additional accidents. Mark the scene of the accident with flares or reflective triangles.
	Notify your Supervisor/Field Office/Plant of the accident before going to investigate the possibility of injuries.
	Request any other Pembina or contract vehicles in the area be sent to assist and set up roadblocks if necessary.
	If safe to do so, make a first aid check of all persons involved in the accident. Conduct first aid within qualification limits until a health care professional takes over.
	If a person is unconscious or complains of neck or back pain, it is best not to move them until qualified medical personnel arrive. DO NOT move victims with possible spine or neck injuries unless a fire or other hazard is present.
	Do not attempt a rescue if it requires you to endanger your own life.  If the vehicle is transporting any kind of product, a fire or toxic atmosphere could occur. Pay attention to fuel leaks and possible ignition sources.
	Conduct ongoing hazard assessments and adjust response actions accordingly.
	Exchange insurance information with any other parties involved in the collision.
	Obtain the names and contact information of any witnesses to the collision.
	If possible, make a quick diagram of where the vehicle occupants were seated and indicate the vehicles' direction of travel and lane. Also note the date, time and weather conditions. If possible, get a copy of the police report of the accident.
	If a fatality has occurred do not move the victim; leave the accident scene undisturbed for investigation by the Police.

This is a general guideline for any motor vehicle collision involving company personnel, company

### 7.7.4 Radiation Related Incidents

Pembina's 24 hour emergency response number is posted on all warning signs for company radiation devices (nuclear densitometers). In the event of an incident involving radiation devices, callers will contact the SPCC who will then notify Corporate and Site Radiation Safety Officers (RSO). RSO(s) will then provide direction on appropriate response actions.

Radiation devices are designed to withstand normal physical damage; however, if shielding fails, contamination and radiation exposure can result. To minimize unnecessary radiation exposure, personnel and emergency responders must remain at least five meters or more away from the device.

Refer to the Radiation Safety Policy & Procedures Manual for additional information.

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# 7.8 General Guidance for Responders

The following general guidance has been provided for responders. It contains high-level information based on topics responders may encounter during emergencies while conducting response actions. Responders are reminded that if they are not sure what actions they should be taking, to request support or direction.

### 7.8.1 Notification of Next of Kin

Death is never to be presumed and first aid must be administered, by trained personnel, until relieved by a health care professional. Notification of a fatality does not occur until the casualty has been pronounced dead by a medical doctor or medical examiner. Under no circumstances are the names of casualties or missing persons to be released before the next of kin are notified. No telephone or radio discussion is to take place regarding the name(s) of the injured.

In the case of an incident that results in the death of, or serious injury to, a Pembina employee or contract person, or where a Pembina employee or contract person is missing, it will be the responsibility of the Incident Commander or Management appointed individual to ensure the immediate family is notified in coordination with, and following approval from, the applicable policing agency.

If the incident involves contract personnel, the Incident Commander will inform the contractor's management who, in turn, will be responsible for assisting police in notifying the next of kin.

If the incident involves a member of the public, the police will notify the next of kin.

Pri	or to notification:  Ensure you have approval from the appropriate policing agency to notify the next of kin.  Triple check the victim's identity before notifying the family.  Confirm the relationship of the victim to the relative being notified.
WI	nen carrying out the notification:
	Identify the time and location of the accident and the current location of the casualty.
	Provide the relatives with as much factual information as possible.
	Offer assistance, such as transportation, if necessary.
	Leave your name and telephone number with the family members.
	Advise the family that a senior Pembina Representative will be contacting them to discuss any immediate and future needs.
	Ensure that notified individuals are not left alone.
rep	lowing an incident where a fatality or serious injury has taken place, government agency presentatives will probably carry out an investigation into the cause of the injury/fatality. After essenting their credentials, these representatives should be given full cooperation in the execution of

Work at the scene of an injury or fatality may not be resumed until permission has been obtained from the Medical Examiner's Office, the police, and appropriate Occupational Health and Safety Department.

their duties.

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# 7.8.2 Emergency Response within a Shared Right-Of-Way

If Pembina is notified of an incident or operational upset, including concomitant failures, within a shared right-of-way (ROW) where there is the potential to impact the safety and wellbeing of people, property, the environment, or Pembina's finances or reputation, the SPCC must be notified. Following notification to the SPCC, event notification and validation activities begin, as required.

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# 8.0 POST INCIDENT AND RECOVERY ACTIVITIES

### 8.1 Incident Close

Once a situation improves, the decision to downgrade the Corporate Incident Classification (or Regulatory Level of Emergency, where declared) is made by the Incident Commander and the Emergency Operations Manager. This decision may be based on monitoring data, control/ containment of the situation, or reduced risk to the public or environment.

Note: When a Regulatory Level of Emergency (AB/BC) is declared, the decision to downgrade is made by the Incident Commander and the Emergency Operations Manager in coordination with the energy regulator.

If there has been an evacuation, the health authority may also want to be included in the decision to return evacuees to their homes.

#### **Action Summary**

- All response team members and on-site personnel, including contract personnel and emergency services, will be notified of the change of status.
- All previous contacts including public, Government, and industrial operators must also be notified.
- Maintain security of any evacuated area until it is deemed safe and all residents and workers have returned to their home or worksites. Provide assistance as required.
- Provide instructions for settlement of costs directly caused by the emergency. Ensure any claims are promptly processed.
- Prepare a media statement in coordination with the Regulator and provide to all those previously notified.
- Debriefing meetings with Pembina personnel (e.g., insurance, legal, human resources) should be conducted.
- Arrange critical stress de-briefing if appropriate.
- Post-incident investigation procedures will be conducted, ensuring all activities are documented appropriately. All reporting requirements will be completed.

# 8.2 Returning Public / Community Relations

When an incident has resulted in a public evacuation, complete the following when returning members of the public to their homes/businesses:

- Ensure residences are checked and ventilated before allowing residents to enter;
- Ensure transportation is available if required;
- Follow up with residents to answer any questions or address any concerns they have;
- Ensure all claims are promptly handled.

It may also be necessary to carry out additional community relations activities. These may include:

- Repair to any structures damaged by the incident;
- Clean up of debris;
- Meeting to inform the public about the cause of the incident and what Pembina is doing to prevent a
  recurrence.

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All communications to the general public will be prepared and/or approved by Pembina's Crisis Communications Team as per the procedures outlined in the *Crisis Communication Plan*.

# 8.3 Critical Incident Stress Management

Pembina will engage a contract medical consulting firm to complete debriefing, as required. The debriefing should occur within 24-72 hours post-incident. When scheduling the debriefing, it is important to be flexible and sensitive to events and demands related to the incident.

# 8.4 After Action Review / Post Incident Analysis

### 8.4.1 Debriefing the Response

Ideally debriefings begin as soon as the emergency phase of the operation is completed and before responders leave the scene. Debriefings should:

- Include the key players from the response
- Identify equipment damage and unsafe conditions requiring immediate attention or isolation for further evaluation
- Assign information-gathering responsibilities for a Post-Incident Analysis (PIA)
- Summarize the activities performed by each sector, including topics for follow-up
- Reinforce the positive aspects of the response
- Identify the person conducting the debrief and the date/time

### 8.4.2 Post-Incident Analysis

A **Post-Incident Analysis (PIA)** is a detailed, step-by-step review of the response that took place as a result of the incident. The PIA is not the same as an investigation(s) conducted to establish the probable cause of the accident for administrative, civil, or criminal proceedings. Responsibility should be assigned to the appropriate individual or office to collect information about the response during the debriefing, from command post logs, incident reports, and/or eyewitness accounts. The PIA should consider/utilize all the following:

- Maps, charts, and forms used in the response;
- A review of the events leading up to the incident;
- A review of all external notifications, including government agencies and area stakeholders;
- An evaluation of the safety procedures used;
- An evaluation of the communications between command posts;
- An evaluation of public relations efforts, e.g., website updates, media statements;
- An evaluation of the Plan(s), and how emergency responders executed their roles;
- Gaps in process, procedures, policies, plans, or training;
- An evaluation of any legal or environmental issues raised;
- A summary of all recommendations for follow-up;
- Assignment of action items to responsible parties.

Once all available data has been assembled, key responders should verify that the details in the PIA have been accurately reported. The PIA should focus on the following:

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Command and Control – Was command established? Was appropriate Span of Control and Command and Control practices followed? Were response objectives communicated to the personnel expected

- to carry them out?
   Tactical Operations Were the tactical operations implemented by emergency response personnel effective? What worked? What did not?
- Resources Were the resources adequate for the job? Are improvements needed to apparatus and/or equipment? Were personnel trained to do the job effectively?
- Support Services Were the support services received from other organizations adequate? What is required to bring support to the desired level?

### 8.4.3 Critiquing the Response

The purpose of a critique is to improve response efficiency and address areas for improvement. A critique should:

- Identify lessons learned and areas for improvement;
- Support continued training to improve skills and techniques;
- Identify gaps in resource needs;
- Promote pre-planning to improve confidence in the response process;
- Encourage cooperation through teamwork;
- Be communicated with parties that could benefit from the learnings.

### 8.5 Incident Investigation

Every emergency will be investigated based on the current Incident Investigation Program. The Incident Commander and Emergency Operations Manager will assist with the appointment of the Investigation Team (based on type and complexity of the emergency). This team will include local operations staff, Emergency Management Team staff, management and technical specialists as required.

Where loss or damage to Pembina property or loss of revenue has occurred, evidence will not be disturbed until permission has been received from the Pembina insurance contact, the insurance company adjuster or any government agencies involved.

### 8.6 Documentation and Collection

The forms referenced by this Plan serve as reporting tools to assist responders in obtaining, recording, and verifying the appropriate information and must be utilized for every incident or accident. Each Pembina employee and contractor that is assigned an emergency responder role shall, during an incident, record their actions, any phone calls/notifications made, etc. so that an accurate record of Pembina's response is documented.

Personal documentation tools, such as day timers or personal notebooks, are not to be used for record keeping during an incident and may be confiscated following the incident to complement the documentation record. Forms completed during an emergency response, including those logged in the **Virtual Command System (VCS)**, are to be submitted to the Emergency Management Team. The information collected on these forms will be reviewed in the post-emergency debriefing session. They may also be reviewed for auditing and training purposes.

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All incidents are recorded in Pembina's Incident Reporting System. Reports may be selected for presentation to and review by Pembina's Executive Incident Review Panel. Incident documentation and reports will be retained for the life of the impacted asset(s).

## 8.7 Insurance, Compensation, and Legal Implications

All requests for compensation and insurance claims should be forwarded to the legal department in the Calgary head office. An inability to operate as a result of injury to personnel, damage to the physical plant/pipeline, or government regulatory action may adversely affect delivery agreements. This effect may be felt for an extended period, depending on the severity of the incident. The Legal department should be engaged in an incident affecting delivery or service agreements.

# 8.8 Post Incident Clean-Up

Non-emergency related repairs must wait until any investigations have been completed. Before cleaning the site, the following must be considered:

- Investigation requirements, including pictures of the scene and forms used by emergency responders during the emergency
- Procedures (e.g., Incident Action Plan, SDS)
- Personal protective equipment for the crew
- Contract specialist cleanup services, if necessary
- Restoration of the area(s) affected

Once permission has been given for resumption of normal activities, obtain confirmation from the Investigation Team that initial investigation and evidence information is complete and proceed with clean-up and restoration of any damaged equipment/facilities.

# 8.9 Regulatory Reporting

Ensure post incident and regulatory reports are developed, as required. Reports required by government regulations shall be prepared promptly and with care, reporting only facts and expressing no opinion as to cause. Reports will be submitted in the prescribed manner and within timelines required by the relevant regulator.

# 8.10Restoration of the ICP/CEOC

See the applicable *ICP/CEOC Operations Guide* for specific instructions on how to return the ICP/CEOC to a state of readiness following the incident.

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# APPENDIX - GLOSSARY

Glossary	
Business Unit (BU)	A Pembina operating group that manages a set of operating assets.
Busiliess Offic (BO)	The Corporate ERP provides guidance and direction to Pembina personnel
Corporate Emergency	to ensure effective response actions during emergencies, to aid in the
Response Plan (ERP)	prevention of injury to employees, emergency responders, and members
	of the public, and to minimize impacts to the environment, property, and
	infrastructure.
Corporate Emergency	The Command Centre used to house the CIST during an incident
Operations Centre (CEOC)	response.
Corporate Incident	A team of response personnel working under the EOM to support a field
Support Team (CIST)	driven incident response.
Damage Prevention and	DPPA Program outline the processes, procedures and practices for
Public Awareness (DPPA)	Pembina pipeline operations. The Programs are developed to protect
Program	stakeholders, the environment and property.
	EMP is based on a comprehensive suite of policies, procedures and
Emergency Management	processes that supports Pembina's commitments to the safety of the
Program (EMP)	public, workers, protection of the environment and minimizing business
	interruptions and impacts to our customers.
<b>Emergency Operations</b>	The EOM directs activities from the CEOC in support of a field driven
Manager (EOM)	incident response.
	An EPZ is a geographical area surrounding a pipeline or facility that
	requires specific emergency response procedures based on a hazardous
Emergency Planning Zone	product. The extent of an EPZ is determined using industry accepted
(EPZ)	dispersion modeling software and analysis. In BC, an emergency planning
	zone is a geographical area that encompasses all the hazard planning
	zones for an oil and gas activity that is subject of an ERP.
Et al la serie de	The FIMT is a field level emergency response group which, under the
Field Incident	direction of the IC, responds to an emergency and conducts tactical
Management Team (FIMT)	operations.
5, 110, 0, 11	A local Pembina Operations representative assigned to receive incident
Field On-Call	notification from the SPCC.
	Pembina's internal GIS Application for viewing and searching assets and
Geocortex	locations, as well as viewing spatial information and various other
	datasets.
	A Hazard Planning Zone is a geographical area determined by using the
Hazard Planning Zone	hazard planning distance as a radius, and within which persons, property
HPZ) (BC Only)	or the environment may be affected by an emergency.
High Consequence Areas	Specific locales and areas where a release could have the most significant
(HCA)	adverse impacts.
(IICA)	adverse impacts.

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Glossary	
	Manages the overall response to emergency incidents. The Incident
	Commander is responsible for: developing objectives, strategies and
Incident Commander (IC)	tactics that guide the response; assigning personnel to fill necessary
incident commander (ic)	positions; ensuring the safety of all personnel; keeping internal and
	external stakeholders updated; coordinating with other response
	agencies.
Incident Command Post	The field location where the primary functions are performed. The ICP
(ICP)	may be co-located with the Incident Base or other incident facilities.
	A standardized, on-scene, all-hazard incident management system. The
Incident Command System	Incident Command System is flexible in that it can be adapted for large
(ICS)	and small incidents.
	An Incident Commander and the appropriate Command and General Staff
	personnel assigned to an incident. The level of training and experience of
Incident Management	the IMT members, coupled with the identified formal response
Team (IMT)	requirements and responsibilities of the IMT, are factors in determining
	"type," or level, of IMT.
Initial Isolation Zone (IIZ)	The IIZ is a circular area surrounding the source of an emergency that
(Alberta)	represents the greatest hazard to the public.
	The Pembina LMS is a centralized and standardized program where
	Pembina personnel will access and control their own learning. The LMS
	will provide each employee with a customized assignment of training
Learning Management	activities (tasks) that is unique to their individual job role. The LMS links
System (LMS)	out to Pembina's document control system so Learners will always be
	presented with the most current, up to date documents. The LMS allows
	supervisors to track and report on staff competency.
Protective Action Zone	The PAZ is the downwind portion of the EPZ. This area is determined
(PAZ) (Alberta)	using wind direction and monitors that measure the hazard.
	A PIA is the reconstruction of an incident to assess the chain of events
Post Incident Analysis	that took place, the methods used to control the incident, and how the
(PIA)	actions contributed to the eventual outcome.
B	An operations centre established in a suitable location to manage the
Regional Emergency	larger aspects of the emergency that is manned jointly by government
Operations Centre (REOC)	and industry staff.
	,

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Glossary	
Sherwood Park Control Centre (SPCC)	Pembina's Control Centre that monitors incoming SCADA information.
State of Local Emergency	A declaration enabling local authorities to take actions necessary to
(SOLE)	provide maximum protection to people, property and the environment.
Subject Matter Experts	A SME is a person with a deep understanding of a particular process,
(SME)	function, technology, machine, material or type of equipment.
Supervisory Control Data Acquisition System (SCADA)	A real time system of hardware and software elements designed to monitor and control industrial processes and data.
The Pipeline	Pembina's internal intranet site, which acts as a repository for information within the organization.
Unified Command	An Incident Command System application used when more than one agency has incident jurisdiction or when incidents cross political jurisdictions. Agencies work together through the designated members of the UC, often the senior persons from agencies and/or disciplines participating in the UC, to establish a common set of objectives and strategies and a single Incident Action Plan.
Virtual Command System (VCS)	A tool based on the Microsoft Teams platform used to communicate in real-time during an emergency. Additional functions allow for report development and the sharing of ongoing response activities between command posts.

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### APPENDIX - FORMS

ICS Forms	
Copies of the following ICS Forms, typically used for initial incident	site assessment and/or
documentation of the response, are included in printed copies of t	
on the Virtual Command System (VCS), or the ICS Canada Website.	
Name / Description	Typically Prepared By
ICS Form 201: Incident Briefing	Initial Incident Commander
ICS Form 214: Activity Log	All Sections and Units
Copies of the following ICS Forms, typically included in an Incident	Action Plan (IAP), are included in
printed copies of the Corporate ERP and are available through The	
Canada Website.	
ICS Form 202: Incident Objectives	Planning Section Chief
ICS Form 203: Organization Assignment List	Planning Section
	Planning Section or
ICS Form 204: Assignment List	Operations Section
ICS Form 205A: Communications List	Operations Section
ICS Form 206: Medical Plan	Safety Watch / Safety Officer
ICS Form 208: Safety Message / Plan	Safety Officer
The following additional ICS forms are available through The Pipeli	ne, the VCS, or the ICS Canada
Website.	
ICS Form 205: Incident Radio Communications Plan	Operations Section
ICS Form 207: Incident Organization Chart	Planning Section
ICS Form 209: Incident Status Summary	Planning Section
ICS Form 211: Incident Check-In	All Sections and Units
ICS Form 213: General Message	Any Message Originator
ICS Form 215: Operational Planning Worksheet	Operations Section
ICS Form 215A: Incident Action Plan Safety Analysis	Safety Officer
ICS Form 216: Radio Requirements Worksheet	Operations Section
ICS Form 217: Communications Resource Availability Worksheet	Operations Section
ICS Form 218: Support Vehicle / Equipment Inventory	Operations Section
ICS Form 220: Air Operations Summary	Operations Section
ICS Form 221: Demobilization Checklist	Operations Section
ICS Form 224: Crew Performance Rating	Section Chiefs or Leads
ICS Form 225: Incident Personnel Performance Rating	Section Chiefs or Leads
ICS Form 230: Daily Meeting Schedule	Planning Section
ICS Form 232: Resources at Risk Summary	Operations Section
ICS Form 233: Incident Open Action Tracker	Planning Section
ICS Form 234: Work Analysis Matrix	Operations Section Planning Section
ICS Form 260: Resource Order	Logistics / Supply Unit
ICS Form 309: Communications Log	All Sections and Units

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#### **Corporate ERP Forms**

Copies of the following forms are included in printed copies of the Corporate ERP *and are available* through *The Pipeline*, the VCS, or the *ICS Canada Website*.

Name / Description	Typically Prepared By
Air Monitoring Log	Air Monitoring Group
Bomb Threat Form	Individual Receiving a Bomb Threat
Incident Action Plan Cover Sheet	Planning Section Chief or Planning Support Lead
Roadblock & Media Holding Statement	Public Information Officer
Public Notification/Verification Record	Notification Group
Reception Centre Registration Form	Reception Centre Group
Resident Expense Claim Form	Reception Centre Group
Roadblock Vehicle Log	Roadblock Group
Script: Shelter-In-Place Notification	Notification Group
Script: Evacuation Notification	Notification Group
Security Witness Statement Form	Witness to Security Event
Missing Person Report	Individual reporting a missing person

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Government Reporting Forms							
	The following forms are available to responders through government agencies to aid in the collection of information during a response effort.						
Agency	Form Description / Guidance						
Alberta Energy Regulator	AER First Call Communication Form - This form is to be used when taking information for spills/releases and during verbal notification. It will assist in consistent gathering of data and should be attached to the FIS record.						
(AER)	AER Release Report - After verbal notification, companies must complete a release report to record the release type, volume, location, any adverse effects on the environment, and other information. Once completed, the report must be submitted to the AER field centre closest to where the release occurred.						
BC Oil and Gas Commission (OGC)	OGC Form A: Minor Incident Notification Form - This form is to be used for incidents which do not meet OGC Level 1, 2, or 3 Classification. Minor incidents must be reported to the Commission within 24 hours through the Commission's Online Minor Incident Reporting System, operated through KERMIT.  OGC Form C: Emergency Incident Form - This form is to be used for emergencies which meet OGC Level 1, 2, or 3 Classification.  The emergency must be reported to the Commission within 1 hour of the incident.  OGC Form D - Permit Holder Post Incident Report - Permit Holder Post Incident Report is to be submitted by the permit holder within 60 days following a Level 1, 2 or 3 emergency, any pipeline incident, or upon request from the Commission.						
Canadian Energy Regulator (CER)	Online Event Reporting System (OERS) - This is an online form and must be completed for all incidents under CER jurisdiction. OERS is the automated single-window pipeline occurrence notification system established by the CER and TSB.						
Saskatchewan Ministry of Environment (MOE)	Saskatchewan Ministry of Environment (MOE) 30 Day Written Spill Report form to be completed within 30 days from the date that the discharge occurred. Online version available.						

CORPORATE EMERGENCY RESPONSE PLAN (CANADA) Version Date: January 2022 Version: 4.0 This page intentionally left blank.



2. DATE PREPARED

3. TIME PREPARED

4. MAP SKETCH

5. SITUATION SUMMARY AND SAFETY BRIEFING



7. CURRENT AND PLANNED OBJECTIVES

	8. CURRENT AND PLANNED ACTIONS, STE	RATEGIES AND TACTICS
Time:	Actions:	
ICS 201-CAN Page 2 of 4	6. PREPARED BY (Name and Position)	SIGNATURE



9. CURRENT ORGANIZATION



10. RESOURCES SUMMARY

Resources Ordere	ed	Resource Identification	ETA	On Scene	Location/Assignment
ICS 201-CAN Page 4 of 4	6 PREPARE	ED BY (Name and Position)		SIGNATURE	



# Activity Log (ICS 214)

. INCIDENT NAME			2. DA	2. DATE PREPARED 3. TIME PREPARED			
4. NAME		5. ICS POSITION	6. OPERATION PERIOD	DNAL From:Date			
		7. PERSONNEL A	SSIGNED	To: Date	Time		
Non					Hama Dasa		
Nar	пе	ICS Position	1		Home Base		
		8. ACTIVITY I	_OG				
Time			Major Events				
9. PREPARED BY (Nar	me and Position)			SIGNATURE			



# Activity Log (ICS 214)

1. INCIDENT NAME		2. DATE PREPARED	ED 3. TIME PREPARED		
4. NAME	5. ICS POSITION	6. OPERATIONAL From:Date	Time		
			Time		
	8. ACTI	VITY LOG			
Time		Major Events			
9. PREPARED BY (Name and Position	on)	SIGNATURE			



# Incident Objectives (ICS 202)

1. INCIDENT NAME			2. DATE PREPARED	3. TIME
4. OPERATIONAL PERIOD (Date/Time)	Date From: Time From:	Date To: Time To:		
5. GENERAL CONTROL OBJECTIVES FO	OR THE INCIDENT (Includ	le alternatives)		
6. WEATHER FORECAST				
7. GENERAL SAFETY MESSAGE				
8. ATTACHMENTS (Check if attached)	<b>—</b>	CS 206) $\square$		
☐ Organization List (ICS 203) ☐ Assignment List (ICS 204)	☐ Medical Plan (IO☐ Incident Map	CS 206)		
Communications Plan (ICS 205)	☐ Traffic Plan			
		_		
9. PREPARED BY (Planning Section Chief)		10. APPROVED BY (Incident Commander)		
SIGNATURE		SIGNATURE		

ICS 202-CAN



# Organization Assignment List (ICS 203)

1. INCIDENT NAME		2. DATI	E	3	B. TIME	4. OPERAT		·	Time
							To: Date		Time
5. INCIDENT COMMAND AND STAFF	=		9. (	OPER	RATIONS SE	CTION			
Incident Commander/				Chief					
Unified Commanders				Deput	ty				
				o DD	ANCH				
Deputy					h Director		-		
Safety Officer				Deput					
Information Officer				-	on/Group			Т	
Liaison Officer					on/Group				
A ACENOVICE CANIZATION DEPOS					on/Group				
6. AGENCY/ORGANIZATION REPREASE. Agency/Organization	Representative				on/Group			-	
Agency/Organization	Representative		·	Divisio	on/Group				
			1	b BR	ANCH				
					h Director				
				Deput	ty				
					on/Group				
					on/Group				
					on/Group			-	
7. PLANNING SECTION					on/Group on/Group			-	
Chief				DIVISIO	on/Group [				
Deputy				c. BR	ANCH				
Resources Unit Situation Unit				Branc	h Director				
Documentation Unit				Deput					
Demobilization Unit					on/Group			-	
Technical Specialists					on/Group on/Group			-	
Tooliilloar opoolailloto			4		on/Group			+	
					on/Group				
			l						
8. LOGISTICS SECTION						NS BRANCH			
Chief				-	perations Br. ctical Group				
Deputy					ipport Group				
a. SUPPORT BRANCH									
Director							<del>                                     </del>		
Supply Unit			10	FINAN	NCIAL/ADMI	NISTRATION	SECTION		
Facilities Unit			10.1	1110/4	TOD ILLI IDINII	THO THE CHIOTE	CEOTION		
Ground Support Unit				Chief					
b. SERVICE BRANCH				Deput	-				
Director			1	Time I	Unit rement Unit				
Communications Unit					ensation/Cla	aims Unit			
Medical Unit				Cost l					
Food Unit			1						
11. PREPARED BY (Resources Unit)			SIG	SNATU	JRE				



**Assignment List (ICS 204)** 2. DIVISION/GROUP/STAGING 1. BRANCH

3. INCIDEN	NT NAME				4.0	OPERATIONAL	FD-4-	T:		
						PERIOD	From:Date			
			5 OPE	RATIONAL	I DEDSON	INEI	To: Date			
Operations	Chief									
				Sla	iging Area	wanager				
			6. RESOURCE	SASSIGN	NED TO TH	IIS PERIOD				
Resource Id	lentifier		No. of Persons		Contact radio freq.	etc.	Repo Equipme	orting Location, S ent and Supplies,	pecial Remarks	
8. SPECIAL	. INSTRUCT	IONS								
		9. D	IVISION/GROU	JP COMMI	UNICATIO	NS SUMMARY				
Fund	ction	Frequencies	System	Chan.	Fur	nction	Frequenci	es	System	Chan.
Command	Local				Logistics	Local Repeat				
Div./Group	Repeat Tactical				Grou	nd to Air				
PREPARED	BY	l		VED BY				Date	Ti	me
(Resource Un	it Leader)		(Planning	Section Ch	hief)			1		
Signature			Signatui	e						



#### **COMMUNICATIONS LIST (ICS 205A)**

1. Incident Name:		2. Operational in Date/Time From	Period: om: Date/Time To:				
3. Basic Local Communication	ns Informati	on:					
Incident Assigned Position	Name (	Alphabetized)	Method(s) of Contact (phone, pager, cell, etc.)				
4. Prepared by: Name:		Position/Title:	Date/Time:				
ICS 205A-CAN IAP Pag	ge	Signature:					
This document may contain sensitive personal information.							

Not to be posted on information boards or in documents distributed to general incident population or the public.



# Medical Plan (ICS 206)

1. INCIDENT NAME			Date		3. OPERATIO	NAL From:Date	Т	ime		
		ME REPARED	Time		PERIOD	To: Date	Т	ime		
		4. INCII	DENT MEDIC	AL AI	ID STATION					
Medical Aid Stations		Location				Contact (number or	frequency)	Pa Ye	rame s	edics No
								<u>_</u>	<u> </u>	
								늗	井	ዙ
								-	╬	ዙ
									╗	Ħ
	5.	TRANSPO	ORTATION (ir	ndicat	e air or ground)					
Ambulance Service		Location				Contact (number o	r frequency)	Lev AL:		Serv. BLS
								<u> </u>	╬	뷰
								<u> </u>	╬	ㅐ
								Ē	計	百
			6. HOSPI	TALS						
Hospital Name	Address (Lat. and Long. if	Helipad)	Travel Time Air Grne		Contact (number	er or frequency)	Helip Yes			rn Ctr. S No
				4			ᆜᄆ	믜		
				4			ᆜ뭐	밁		
				$\dashv$			ᆛ井	爿		╫∺
				$\dashv$			ᆂ	퓜		怈
	7. S	PECIAL M	IEDICAL EMF	RGF	NCY PROCEDU	JRES				
8. PREPARED BY (Medical Unit Leader)					OVED					
SIGNATURE				(Saie NAT	ty Officer)					



## Safety Message/Plan (ICS 208)

 1. INCIDENT
 2. OPERATIONAL From:Date \_\_\_\_\_\_ Time \_\_\_\_\_

 NAME
 PERIOD: \_\_\_\_\_\_ To: Date \_\_\_\_\_\_ Time \_\_\_\_\_

3. SAFETY MESSAGE/EXPANDED SAFETY MESSAGE, SAFETY PLAN, SITE SAFETY PLAN:

4. SITE SAFETY PLAN REQUIRED? Yes No Approved Site Safety Plan(s) Located At:  No	
5. PREPARED BY (Name and Position)	Date Prepared:
SIGNATURE	Time Prepared:

#### **AIR MONITORING LOG**

					AIR N	101	NITORING L	OG	
DATE:								NNW 337.5°	N 360° NNE 22.5°
NAME:							1	NW 315*	NE 45°
TITLE:							WNW 292.5°		ENE 87.5°
ICS POSITI	ON:						W 270°		E 90°
PAGE NO.	:						WSW	\//	ESE 112.5°
								sw	SE 135*
NOTE: Tak	NOTE: Take readings at ground level.							SSW 202.5°	SSE S 157.5°
					WIN	D D	DIRECTION	WIND	LOCATION OF READING AND
TIME	LEL %	H <sub>2</sub> S	<b>SO</b> <sub>2</sub>	O <sub>2</sub> %	FROI	М	то	SPEED/ TEMP. (Est.)	COMMENTS

#### **BOMB THREAT FORM**

BOMB THREAT FORM											
GENERAL INFORMATION											
CALL		DATE:			TIME	OF			AM		
RECEIVED BY:		(mm/dd/yyy	/y)		CALL:				PM		
THREAT											
Note: Try to use exact wording, and document Phone Number, if known.											
		QUESTION	IS T	O ASK THE CALLER							
When will the b	omb go off?										
Where is the bo	mb?										
What does the I	oomb look like?	)									
Where exactly (	eg., office/build	ling/facility/pipel	ine,	, etc.) did you put th	ne bom	ıb?					
Where are you	calling from?										
Why are you pla	nting the bomb	ο?									
Who are you?											
villo are you:											
Are you alone?											
	V	OICE AND BACK	GRO	OUND SOUNDS CHE	CKLIST	<b>T</b>					
VOICE		ATTITUDE	В	ACKGROUND SOUN	IDS		ACC	ENT			
Female		Calm		Office Machines		E	nglish				
Child		Angry		Airplanes		F	rench				
Slurred		Laughing		Factory Sounds		l l	talian				
Distorted/Sy	nthesized	Emotional		Traffic			German				
Deep		Accusatory		Trains			sian				
Raspy		Incoherent		Music			Other:				
Intoxicated		Nasal		Children							
Stutter		Nervous		Voices							
Nasal		Other:		Other:							
Deep Breath	ing										
Lisp											
Other:											

### **INCIDENT ACTION PLAN COVER SHEET**

To be completed by the Planning Section Chief.

INCIDENT INFORMATION							
1. INCIDENT NAME:		2. OPERATIONAL (Date/Time)					
		From:	/	To:	/		
Occasiontions	3. APPROVED BY INCID	ENT COMMANDER					
Organization:	Name:		Signature	:			
	4. INCIDENT A	CTION PI AN					
The item	s checked below are inclu		nt Action Pla	an.			
ICS 202 – Incident Objectives							
ICS 203 – Organization Assign	ment List						
CS 204 – Assignment List							
ICS 205A – Communications L	ist						
CS 206 – Medical Plan							
ICS 208 – Safety Message / Pla	an						
5. PREPARED BY:		С	DATE/TIME:	/			

#### ROADBLOCK & MEDIA HOLDING STATEMENTS

Taken from the Crisis Communications' Quick Reference for What to do During an Emergency Response, October 2021

#### Media Reminder to Field Employees and Contractors On-Site

Due to the sensitive nature of this incident, refrain from any social media or contact with media related to the incident. Please be mindful that today's technology enables your actions and conversations to be recorded covertly and shared instantly.

Direct all media inquiries to 403-691-7601 or media@pembina.com.

#### **Roadblock Statement**

"I am not a company spokesperson but will gladly put you in touch with our Media Relations team. Please contact 403-691-7601 or 1-844-775-6397 or media@pembina.com."

If pressed — "I am responding to an operational incident which requires my full attention. Please contact our Media Relations Team for information at 403-691-7601 or 1-844-775-6397 or media@pembina.com."

#### **Media Holding Statement**

"This is the information I can give you at this time:

At approximately <time> on <date> a <release/explosion/power outage> occurred at the <pipeline/facility> approximately <#> kilometres <east/west/north/south> of <city/town/municipality>. <The release has been isolated and the plant has been shut in.>

Emergency response procedures have been activated. <There are no injuries and all workers have been accounted for. One worker has been injured and is currently being treat for their injuries.> <Roadblocks have been set up around the facility to divert traffic and there is no danger to the public at this time.>

The cause of the <release, explosion, power outage> is not yet known and no estimate of damage is available. Our first priority is to protect the public, our employees, and the environment.

An update will be provided when new details become available."

If they request further information or interviews:

"Thank you, we appreciate your patience, I have to get back to dealing with the situation at hand. Please call 403-691-7601 or email <a href="mailto:media@pembina.com">media@pembina.com</a>."

### **PUBLIC NOTIFICATION / VERIFICATION RECORD**

PUBLIC NOTIFICATION / VERIFICATION RECORD								
PREPARED BY:							DATE:	
NAMES	MAP AND						DETAILS	
(List Everyone)	LOCATION	TIME	YES	NO	YES	NO	(Destination, Phone, Help Required, etc.)	

#### **RECEPTION CENTRE REGISTRATION FORM**

RECEPTION CENTRE REGISTRATION FORM											
NAME AND NO. OF PEOPLE	NAME AND NO. OF PEOPLE RESIDENCE PHONE NO. PHONE NO. TIME TIME COMMENTS										

### **RESIDENT EXPENSE CLAIM FORM**

RESIDENT EXPENSE CLAIM FORM									
INCIDENT NAME:									
DATE SUBMITTED:									
RESIDENT NAME:									
MAILING ADDRESS:									
LOCATION/ADDRESS OF RESIDENCE/BUSINESS/EMERGENCY RESPONSE PLAN MAP NO.:									
HOME PHONE:				Pi	HONE	WHILE EVA	CUATED:		
ADDRESS WHILE EV	ACUATED:								
EXPENSES (Attach Receipts)*	DATE	DATE	DATE	DA <sup>-</sup>	TE	DATE	DATE	DATE	TOTAL
Accommodation:									
Meals:									
Transportation (kms):									
							тота	L EXPENSES:	
OTHER EXPENSES (Describe)	DATE	DATE	DATE	DA	TE	DATE	DATE	DATE	TOTAL
TOTAL OTHER EXPENSES:									
ALL EXPENSES TOTAL:									
* If not pre-arranged and paid for directly by Pembina.									
PEMBINA CONTACT: PHONE NO.:									
SUBMITTED BY:									

PPL0000 V.XX MM-YYYY

## **ROADBLOCK VEHICLE LOG**

ROADBLOCK VEHICLE LOG								
PREPARED B	PREPARED BY: DATE:							
VEHICLE MAKE/ MODEL	LICENSE PLATE NO.	DRIVER'S NAME	NO. OF PASSENGERS	TIME Entering EPZ	TIME LEAVING EPZ	COMMENTS		

#### SHELTERING NOTIFICATION SCRIPT

At \_\_(time)\_\_ on \_\_(Date)\_\_, Pembina \_\_(identified an OR is currently investigating a potential incident)\_ located at \_\_(Incident Location)\_.

As a safety precaution, we are asking members of the public in the area to remain indoors.

Close and lock all windows and exterior doors.

Turn off all fans, reduce heating and air conditioning systems to a minimum, and close fireplace dampers.

Upon check-in at the Reception Centre, a representative will provide you with additional information.

Keep your phone lines clear so we can contact you with updates.

#### Can you confirm:

- Are all occupants in the building able to shelter indoors?
- Is additional assistance required?

For additional information please call 1-888-920-1979 or email community@pembina.com

#### **EVACUATION NOTIFICATION SCRIPT**

At \_\_\_(time) on \_\_\_(Date) \_\_, Pembina identified an incident located at \_\_(Incident Location) \_\_.

For your safety, we are evacuating the immediate area. A Reception Centre has been established at *(Reception Centre Location)*.

- Please follow these evacuation instructions:
- Bring personal identification, required medications, and pets.
- Turn off all fans, reduce heating and air conditioning systems to a minimum, and close fireplace dampers.
- · Close and lock all windows and exterior doors.
- Evacuate all building occupants to the reception centre avoiding the incident location.

Upon check-in at the Reception Centre, a representative will provide you with additional information.

Can you confirm:

- Are all occupants in the building evacuating?
- Is additional assistance required?

For additional information please call 1-888-920-1979 or email community@pembina.com

## **SECURITY WITNESS STATEMENT FORM**

	REPORTER IN	IFORMATION	
PROJECT:			
NAME:		TITLE/POSITION:	
WORK PHONE:	CELL PHONE:		EMAIL:
DATE (mm/dd/yyyy):	TIME:	LOCATION:	
		CIRCUMSTANCES	
Who was present? Exactly what happened	and was said?:		
STATEMENT OF:			
]	DESCRIPTION OF PERSO		R(S)
If Person(s)/Perpetrator(s) are unknown, d	escribe as best you car		
If Person(s)/Perpetrator(s) are unknown, d HEIGHT:		1:	EYE COLOUR:
If Person(s)/Perpetrator(s) are unknown, d HEIGHT: COLOUR OF HAIR:	escribe as best you car		EYE COLOUR:
If Person(s)/Perpetrator(s) are unknown, of HEIGHT:  COLOUR OF HAIR:  GENDER:	escribe as best you car WEIGHT:	n: FACIAL HAIR, IF AN	EYE COLOUR:
If Person(s)/Perpetrator(s) are unknown, d HEIGHT: COLOUR OF HAIR:	escribe as best you car WEIGHT:	n: FACIAL HAIR, IF AN	EYE COLOUR:
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If Person(s)/Perpetrator(s) are unknown, of HEIGHT:  COLOUR OF HAIR:  GENDER:	escribe as best you car WEIGHT:	n: FACIAL HAIR, IF AN	EYE COLOUR:
If Person(s)/Perpetrator(s) are unknown, of HEIGHT:  COLOUR OF HAIR:  GENDER:	escribe as best you car WEIGHT: ket, pants, gloves, and	n: FACIAL HAIR, IF AN	EYE COLOUR:
If Person(s)/Perpetrator(s) are unknown, of HEIGHT: COLOUR OF HAIR: GENDER: Male Female CLOTHING (for example, colour of cap, jack	escribe as best you car WEIGHT: ket, pants, gloves, and	n: FACIAL HAIR, IF AN	EYE COLOUR:
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If Person(s)/Perpetrator(s) are unknown, of HEIGHT: COLOUR OF HAIR: GENDER: Male Female CLOTHING (for example, colour of cap, jack	escribe as best you car WEIGHT:  ket, pants, gloves, and	n: FACIAL HAIR, IF AN	EYE COLOUR:
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## **SECURITY WITNESS STATEMENT FORM**

	DESCRIPTION OF VEHICLE	
If a vehicle was involved:		
TYPE:	MAKE:	MODEL:
COLOUR:	LICENCE NO.:	PROVINCE:
DISTINCTIVE MARKINGS ON THE VEHICLE,		
OTHER:		
Official.		
	ADDITIONAL DETAILS	
	hat exactly was said and describe any physic	al actions (for example, clenching of fists,
brandishing an object) the person did wher	i making the threat.	
	ne nature (for example, pushed, punched in	· · · · · · · · · · · · · · · · · · ·
sustained injuries and type (for example, cu	ut, bruised, etc.) and if you obtained medical	l attention:
Did you report the threat or assault to the	police? If so, provide the name of the officer	receiving your complaint and any related
file number given to you.		, , , , , , , , , , , , , , , , , , ,
Note: Continue on additional paper if you r	un out of room.	
The state of the s		

#### MISSING PERSON REPORT

Record completed by	
Role	
Contact details (email/mobile)	
GENERAL DETAILS	
Name of missing person	
Role	
Organization	
Address	
Home country	
Staying at	
Last seen where, when and by whom	
Reported missing by	
Time reported missing	
Contact details	
Efforts to find person up until now	
Who has been notified	
(police case #, etc.)	
Do they have a prominent profile or are they connected to someone who does	
Physical appearance	
(attach recent photograph)	
MISSING PERSON SPECIFICS	
Primary language	
Familiarity with the area	
Possible reason for disappearance	
Possible/stated destination	
Possible route/means travel	
Vehicle description	
(make, model, colour etc.)	
Possible causes of disappearance	
Wearing what clothes	
(glasses/hat/coat, etc.)	
Carrying (computer/cash/passport/	
blackberry, etc.)	
Hobbies/habits	
Impairment	

MISSING PI	ERSON SPECIFICS	continued				
Medical conditions/disabilities (carrying medication?)						
Recent injuri	ies/trauma/lifestyl	e changes				
Any known p	oroblems					
Suicidal / da	ngerous to others					
Last known (	conversation / top	ic				
Facebook / s	ocial media user					
Recent acces work device	ss to a computer/ (#)					
Has the pers abducted?	on previously bee	n				
NEXT OF KI	N/FAMILY DETAIL	s				
Name		Relat	ion		Contact	
Name		Relat	ion		Contact	
Name		Relat	ion		Contact	
Name		Relat	ion		Contact	
Special not	es on next of kin					
ESCALATIO	N					
То						
From						
At what date and time						

Version Date: January 2022

Version: 4.0

# PART 2 – DISTRICT/AREA OR SYSTEM SUPPLEMENTS

**CORPORATE EMERGENCY RESPONSE PLAN (CANADA)** Version Date: January 2022 Version: 4.0 This page intentionally left blank.

Version Date: January 2022

Version: 4.0

## PART 3 – ASSET SPECIFIC ADDENDUMNS

Version Date: January 2022 Version: 4.0

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Version Date: January 2022

Version: 4.0

# PART 4 – SUPPORTING DOCUMENTS

**CORPORATE EMERGENCY RESPONSE PLAN (CANADA)** Version Date: January 2022 Version: 4.0 This page intentionally left blank.





# **EMERGENCY MANAGEMENT PLAN**

## **24-HOUR EMERGENCY LINE:**

1-800-360-4706

BC OGC 24-HOUR INCIDENT REPORTING LINE 1-800-663-3456

#### **CONTAINS CONFIDENTIAL INFORMATION**

This document is not intended for external distribution without approval from the Emergency Management Team.

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8 June 2020

Re: Pembina request for regulatory variance:

Emergency Management Regulation, S. 13 (1), parts a and e



The BC Oil and Gas Commission has reviewed your request for continuance of the exemption from section 13 (1) parts a and e of the Emergency Management Regulation with respect to the jet fuel line recently acquired by Pembina, BCOGC project 000001476 (all segments).

The Commission acknowledges the work of Pembina towards public education with respect to pipeline safety, and efforts made in conjunction with the BC 1-Call service to mitigate the potential for accidental 3<sup>rd</sup> party damages.

Subject to the continuance of these actions to mitigate risks to the public and pipeline systems infrastructure, the BC Oil and Gas Commission are prepared to waive, for a period of 3 years, ending June 9th, 2023, the requirement for Pembina, DBA as PKM Canada (Jet Fuel) Inc., to develop and maintain an emergency notification system, including gathering and updating of resident and tenure holder information within the pipeline emergency planning zone (EPZ) as outlined in the Emergency Management Regulation, S. 13 (a) and (e) provided the following conditions are met:

- Pembina commits to working closely with local governments and their first responders to coordinate any necessary evacuation and notification processes should an incident occur, and shall be able to demonstrate compliance with CSA Z246.2, S. 10.1(b) on request;
- Pembina shall be able to demonstrate how they are in compliance with CSA Z246.2, S. 11.2(f) directly, or indirectly through the applicable local authority;
- This exemption is only applicable to the jet fuel regulated pipeline in areas where local
  government and first responders have the capacity and capability to support an evacuation of
  a hazard area, and local government is in agreement with this process.

We request acknowledgement of this variance to regulation. A copy of this letter should be included in the applicable Pembina emergency response plan.

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# PRAIRIE SKY DISTRICT - JET FUEL PIPELINE

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#### PRAIRIE SKY DISTRICT - JET FUEL PIPELINE

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**EMERGENCY MANAGEMENT PLAN** 

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#### **DISTRIBUTION LIST**

Copies of this site-specific section work in conjunction with the Corporate Emergency Management Plan and are distributed according to the following distribution list. Overall responsibility for the distribution of the manuals rests with the Emergency Management (EM) Team.

	Internal Manuals							
Number	Name	Title	Location	Plan Type				



#### **EMERGENCY MANAGEMENT PLAN**

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	External Manuals			
Number	Name	Title	Address	Plan Type



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#### **REVISION RECORD**

The Emergency Management (EM) Team in coordination with the appropriate District or Area Field Offices/Facilities shall be responsible for the maintenance of this plan.

This plan will be reviewed, validated, and updated regularly, or on an as-needed basis, to ensure all applicable regulations are met.

All updates shall be distributed to each individual plan holder, who will be responsible for incorporating them into their copy of the plan, as they are received.

Version	Date of Revision	Description of Revisions
	Prior to 2019	Revision records have been archived. Outdated manuals are to be recalled.
1.0	May 27, 2020	Initial release
2.0	May 30, 2021	Restructured the Emergency Management Plan document. Reviewed and completed necessary revisions to content.

### PRAIRIE SKY DISTRICT - JET FUEL PIPELINE

EMERGENCY MANAGEMENT PLAN Version Date: May 2021

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# **Emergency Management Plan Revision Request Form**

**NOTE:** If you find any errors in the plan, or if you become aware of regulatory or industry procedural changes, please document that information and forward to Pembina's Emergency Management (EM) Team for inclusion in the next update of the Emergency Management Plan.

Send to: Pembina Pipeline Corporation Or E-mail: Emergency.Management@pembina.com

4000, 585 – 8 Avenue S.W. Calgary, AB T2P 1G1

REVISION IDENTIFICATION INFORMATION			
EM PLAN NAME:			
VERSION NUMBER/DATE:	SECTION NUMBE	ER:	PAGE NUMBER:
REVISION REQUESTED BY:	OF	RGANIZATION:	
	<b>DESCRIPTION OF F</b>	REVISION	
	DATIONAL		
	RATIONAL	LE	
	EM TEAM USE	ONLY	
REVIEWED/APPROVED BY:	LIVI I LAW 001		RECTIVE ACTION NO.:
If not approved, provide explanation and date follow up communication to Requestor completed.:			
	•	-	·

## PRAIRIE SKY DISTRICT - JET FUEL PIPELINE

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# PRAIRIE SKY DISTRICT - JET FUEL PIPELINE EMERGENCY MANAGEMENT PLAN

Version Date: May 2021

Version: 2.0

#### 1.0 INTRODUCTION

This supplement is intended to work in conjunction with the Pembina Corporate Emergency Management (EM) Plan, which is based on the Incident Command System (ICS).

#### The Corporate EM Plan includes:

- Internal notification and activation guidelines
- Response management / organizational details
- Incident classification tools
- Responder roles and responsibilities
- Public protection measures
- Communication strategies and protocols
- Incident investigation and recovery considerations
- Training and exercise expectations
- Forms for incident documentation

It is imperative that company personnel and contractors become familiar with site or system specific related duties and responsibilities outlined in this supplemental plan. An effective response to any emergency requires preplanning and testing, to ensure all personnel are aware of their duties and that they can effectively implement them.

In preparing this supplement, the following factors were considered, as appropriate:

- Properties/characteristics and quantities of product being transported and/or stored
- Regular activities on site or within the Emergency Planning Zone (EPZ), where established
- Potential consequences to human life and health, as a result of an operational upset
- Potential consequences to the environment, as a result of an operational upset

#### **Application**

This Plan covers emergencies that originate along the Jet Fuel Pipeline and/or associated facilities, and valves as indicated in this plan, including spills, security incidents, natural hazards, explosions, and fires.

This plan will not cover emergencies originating inside the fence at the Trans Mountain Westridge Terminal; nor does it cover other non-Pembina owned/operated assets along the Jet Fuel Pipeline System; those emergencies are covered by the Trans Mountain Westridge Marine Terminal Emergency Response Plan (ERP), or respective ERP, as appropriate.

# PRAIRIE SKY DISTRICT - JET FUEL PIPELINE EMERGENCY MANAGEMENT PLAN

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#### 1.1 Jet Fuel Pipeline System

The Jet Fuel Pipeline System is managed by Pembina's Prairie Sky District, under the Transmission Business Unit (TBU), out of Pembina's Jet Fuel Pipeline Terminal Office. The Jet Fuel Pipeline is a 41 km pipeline system running from the marine terminal at the Trans Mountain Westridge Facility in the City of Burnaby to the Vancouver International Airport. It transports JET A aviation fuel with no associated H2S.

Located along the pipeline route are several control valves which assist in controlling the flow of the pipeline. Control Centre personnel monitor and record pipeline flow rates, pressures, and fluid characteristics 24 hours a day, seven days a week. In the unlikely event of a release, all product is expected to remain on the Right of Way. In the event of an incident, Pembina personnel from all Business and Service Units may support one another during response activities.

#### 1.1.1 Land Use

The Jet Fuel Pipeline System, and its associated 150m Hazard Planning Zone (HPZ), traverses through densely populated areas of Metro Vancouver, and various municipalities including the City of Burnaby, the City of Richmond, the City of Coquitlam, and the City of Port Moody.

- Metro Vancouver is a federation of 21 municipalities, one Electoral Area, and one Treaty
  First Nation that collaboratively plans for, and delivers regional-scale services. Its core
  services are drinking water, wastewater treatment and solid waste management. Metro
  Vancouver also regulates air quality, plans for urban growth, manages a regional parks
  system, and provides affordable housing. The regional district is governed by a Board of
  Directors of elected officials from each local authority.
- The cities of Burnaby, Coquitlam, Port Moody, and Richmond are all members of Metro Vancouver but are each an independent local authority.

The Jet Fuel Pipeline System passes through several residential neighborhoods and recreation areas, crosses the Fraser River in two places and runs under several highways, roads, pathways, and ditches along the way to Vancouver International Airport. Stakeholders located along the Pipeline route and HPZ include residents, businesses, school districts, recreational area users, and other oil and gas operators. There are also several seasonal parks, campgrounds, and recreational facilities located along the pipeline route, within the planning zone. These areas of transient usage have a greater number of occupants in the peak months (spring/summer) and have low levels of usage during the low season (fall/winter/spring).



**EMERGENCY MANAGEMENT PLAN** 

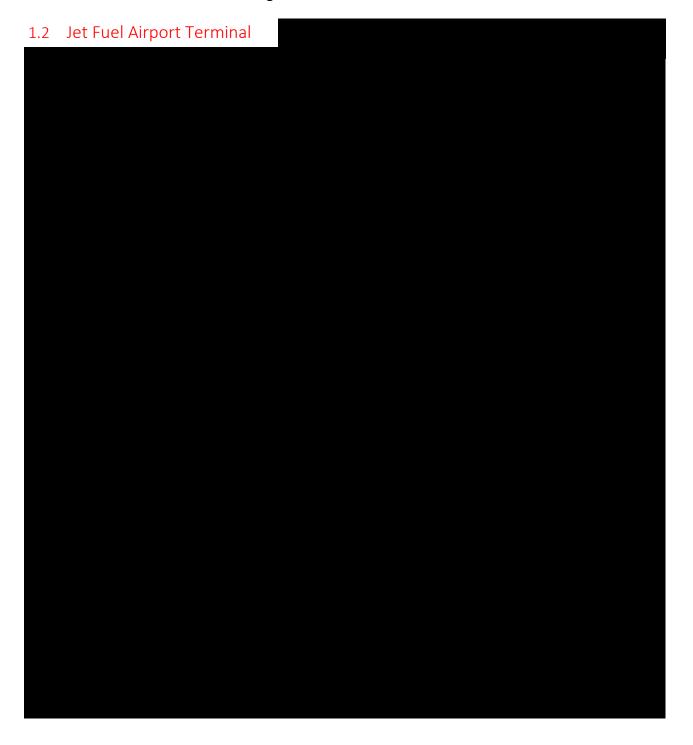
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#### 1.1.2 Regulatory Note

The Jet Fuel Pipeline System has been granted a regulatory variance regarding specifically defined emergency response activities.

Refer to Governmental Mutual Aid Agreements for further details.





#### **EMERGENCY MANAGEMENT PLAN**

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**EMERGENCY MANAGEMENT PLAN** 

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#### 2.0 CONTACT NUMBERS

#### 2.1 Pembina Corporate Locations

Name	Location	Phone Number	
Corporate Contact Numbers			
24 Hour Emergency Sherwood Park Control Centre	Sherwood Park	1-800-360-4706	
Emergency Management 24-Hour On-Call	Calgary		
Crisis Communication Team 24-Hour On-Call	Calgary		
Environment 24-Hour On-Call	Calgary		
Corporate EOC – Room 34-103	Calgary		
Head Office – Main Reception	Calgary	403-231-7500	
Aboriginal and Community Relations	Calgary		
Sherwood Park Control Centre Foreman 1	Sherwood Park		
TBU Management Contact Numbers			



#### **EMERGENCY MANAGEMENT PLAN**

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Corporate Radiation Safety Officers (RSO)			
Name	Office	Phone	Cell

Site Radiation Safety Officers (RSO)			
Office/Site RSO Office	Site RSO	Foreman/Supervisor	Manager



#### **EMERGENCY MANAGEMENT PLAN**

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Corporate Internal Technical Resources	
Emergency Management	
ICS, emergency management, sensitive environment response, regulatory compliance, spill containment & recovery, environmental assessment, wildlife management response logistics, public protection support	
Communications	
Media relations, crisis communications, corporate spokesperson, corporate website/dark site administrator, public relations strategist	
Security	
Security Management & Security Threat Response	Activated through the CEOC
Environment	
Environmental response, environmental management, environmental sampling, sensitive environment response, wildlife management, regulatory compliance, environmental assessment	
GIS / Mapping	
GIS and mapping support, GIS layer sourcing, data visualization	Activated through the CEOC
Regulatory	
Regulatory compliance, regulatory affairs, regulatory liaison	Activated through the CEOC
Land	
Surface lands compliance, access negotiation, public information, landowner compensation	Activated through the CEOC
Safety	
Site safety, risk assessment, project safety, safety plan development	Activated through the CEOC
Supply Chain	
Vendor approvals, logistics, vendor on-boarding, vendor selection. Includes category specialist for Pembina chartered air travel.	Activated through the CEOC
Information Systems	
IT management, IT security, IT resourcing, IT process and system compliance	Activated through the CEOC
Finance	
Finance and admin, project costing, PO development, AFE development, cost tracking, financial systems	Activated through the CEOC



#### **EMERGENCY MANAGEMENT PLAN**

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# 2.2 Pembina Prairie Sky District – Pipeline Contacts

2.2.1 Jet Fuel Pipeline System Contacts

Jet Fuel Pipeline Pe	ersonnel		
Name	Position	Locations	Phone Number



## **EMERGENCY MANAGEMENT PLAN**

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# 2.2.2 Jet Fuel Pipeline Incident Management Team

	Field Office Contact Num	bers	
Name	Title	Office	Cell
Incident Commanders			
Safety Officers			
Liaison Officers			
Liaison Officers			
Public Information Officers			
Scribes			
<b>Logistics Section Chiefs</b>			
Name	Title	Office	Cell
Planning Section Chiefs			
Finance / Admin. Section Chie	efs		
Operations Section Chief			



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## 2.3 Emergency Services

Name of Organization	Address	City/Town	Phone Number
Fire Department	7 talai 655	City, rouni	
Burnaby Fire Department	4867 Sperling Avenue, Burnaby, BC, V5E 2S9	Burnaby	Admin: 604-294-7195 24hr Dispatch: 604-294-7190
Richmond Fire-Rescue	6960 Gilbert Road, Richmond, BC, V7C 3V4	Richmond	Admin: 604-278-5131
Coquitlam Fire & Rescue	3000 Guildford Way, Coquitlam, BC, V3B 7N2	Coquitlam	Admin:604-927-6400 Reception: 604-927-3000
Port Moody Fire-Rescue	150 Newport Drive, Port Moody, BC, V3H 5C3	Port Moody	Admin: 604-469-7795
Police		·	•
Burnaby RCMP Detachment	6355 Deer Lake Avenue, Burnaby, BC, V5G 2J2	Burnaby	Admin: 604-646-9999
Richmond RCMP Detachment	11411 No 5 Road, Richmond, BC, V7A 4E8	Richmond	Admin: 604-278-1212
Coquitlam RCMP Detachment	2986 Guildford Way, Coquitlam, BC, V3B 7Y5	Coquitlam	Admin: 604-945-1550
Port Moody Police Department	3051 St. Johns Street, Port Moody, BC, V3H 2C4	Port Moody	Admin: 604-461-3456
Ambulance			
Ground Ambulance provided by BC I	Emergency Health Services		911
Hospitals			•
Burnaby Hospital	3935 Kincaid Street	Burnaby	Admin: 604-434-4211
Richmond Hospital	7000 Westminster Hwy	Richmond	Admin: 604-278-9711
Vancouver General Hospital	899 W 12th Avenue	Vancouver	Admin: 604-875-4111
Mount Saint Joseph Hospital	3080 Prince Edward Street	Vancouver	Admin: 604-874-1141



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ne Number	Phor	City/Town	Address	Name of Organization
			da (ERAC)	<b>Emergency Response Assistance Canad</b>

## 2.4 Government Reporting Contacts

Agency	Reporting	Location	Phone Number
Regulators			
Transport Canada – Navigable Water / Office of Boating	To report a spill or gas release impacting waterways	Province-wide	1-888-463-0521
Department of Oceans and Fisheries (DFO)	To report a spill or gas release impacting waterways	Province- wide	1-866-290-3731 604-666-0384
Emergency Management BC (EMBC)			
Oil and Gas Commission (OGC)			
BC Ministry of Environment (MOE) & Climate			
Change Strategy	24 Hour Incident Reporting Line (via	Province- wide	1-800-663-3456
Dangerous Goods	EMBC)	Province- wide	1-800-003-3430
BC Environment Assessment Office			
(BC EAO)			
Environment & Climate Change Canada (ECCC)			
BC Ministry of Environment (MOE)	Regional MOE Office – Lower Mainland	Surrey, BC	Office: 604 582-5200

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Agency	Reporting	Location	Phone Number
Local Authorities			
City of Burnaby		Vancouver	Burnaby Emergency Program Office: 604-294-7097
City of Coquitlam	Must notify at a Regulatory Level 1, 2 or 3 Emergency to allow the Local Authority to activate their	Vancouver	Coquitlam Emergency Program Office: 604-927-3000
City of Richmond	Emergency Response Plan and conduct public notifications, as necessary.	Vancouver	Emergency Preparedness Office: 604-233-3333
City of Port Moody		Vancouver	Emergency Program Coordination: 604-469-7795
Supporting / Coordinating	Authorities		
Metro Vancouver	<ul> <li>Must notify at a Regulatory Level 1, 2 or 3 Emergency to allow the Local Authority to activate their Emergency Response Plan and conduct public notifications, as necessary.</li> </ul>	Vancouver	Administration: 604-432-6200 Regional Duty Officer: 604-451-6610
Health Authorities			
WorkSafe BC *Administers BC Worker's Compensation Board	<ul> <li>Must notify at a Regulatory Level 1, 2 or 3 Emergency to allow the Local Authority to activate their Emergency Response Plan and conduct public notifications, as necessary.</li> <li>Must notify in the event of workplace injuries</li> </ul>	Province- wide	Business Hours Reporting: 1-888-621-7233 or 604-276-3100 After Hours Reporting: 1-866-922-4357 or1-866-922-4357
Emergency Management BC (EMBC) *All emergency health services are coordinated through EMBC	Must notify at a Regulatory Level 1, 2 or 3 Emergency to allow local health services to activate their Emergency Response Plan, if necessary.	Province- wide	24 Hour Incident Reporting Line: 1-800-663-3456
BC First Nations Health Authority	Must notify at a Regulatory Level 1, 2 or 3 Emergency to allow local health services to activate their Emergency Response Plan, if necessary.	Province- wide	Administration: 1-866-913-0033 or 604-693-6500

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Agency	Reporting	Location	Phone Number
Other Agencies			
Transport Canada – Transportation of Dangerous Goods (TDG) CANUTEC Transport Emergency Centre	To report a transportation related incident including a spill, release, or fire	Federal	CANUTEC Emergency 24-Hr: 1-888-226-8832, 613-996-6666, or *666 from cell
BC Ministry of Forests, Lands and	Forest Fire Line (Report a Wildfire)	Province-wide	24 Hr: 1-800-663-5555 *5555 from a cell phone
Natural Resource Operations	Wildfire Information Line	Federal  Province-wide  Province-wide  Coquitlam  Province-wide  Federal  Province-wide  Province-wide  Vancouver Vancouver Vancouver Vancouver Vancouver Federal	24 Hr: 1-888-336-7378
BC Ministry of Transportation & Infrastructure	South Coast Regional Office & Lower Mainland District	Coquitlam	604 527-2221
BC Safety Authority	Incident Reporting Line: Boiler & Pressure Vessel Safety Branch, Electrical Safety Branch, Gas Safety Branch	Province-wide	Office: 1-866-566-7233
Indigenous Services Canada (ISC) *Formerly Aboriginal Affairs and Northern Development Canada (AANDC)	AANDC Contact Centre (Public Inquiries)	Federal	1-800-567-9604
BC Drug & Poison Information Centre	24 Hour Expertise & Advice	Province-wide	1-800-567-8911 604-682-5050
BC One-Call	As a courtesy, to report a spill or gas release Emergency locate requests	Province-wide	1-800-474-6886
NAV Canada – Customer Service Centre	To request a Notice to Airmen (Closure of Air Space) in consultation with the appropriate government authorities	Federal	1-800-876-4693
Vancouver Fraser Port Authority (VFPA)	24/7 Operations Centre/Port emergencies	Vancouver	604-665-9086
Vancouver Airport Authority (YVR)	24/7 Emergency: YVR Operations	Vancouver	604-207-7022
	24/7 Emergency YVR Customer Service	Vancouver	604-207-7077
Vancouver TransLink / TransPolice	Non-Emergency line	Vancouver	604-515-8300
CN Rail	Emergency number / CN Police	Federal	1-800-465-9239
Canadian Pacific (CP) Rail	Emergency number	Federal	1-800-716-9132

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# 2.5 School Divisions

## 2.6 Mutual Aid Groups



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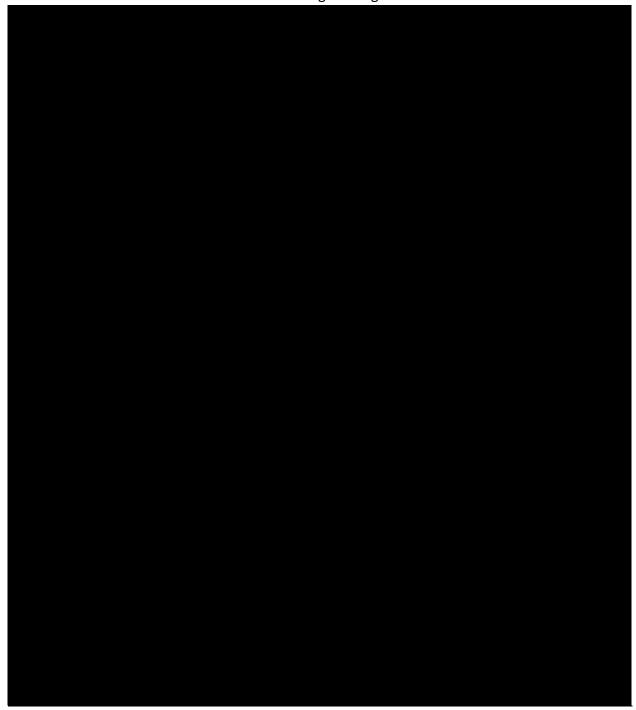


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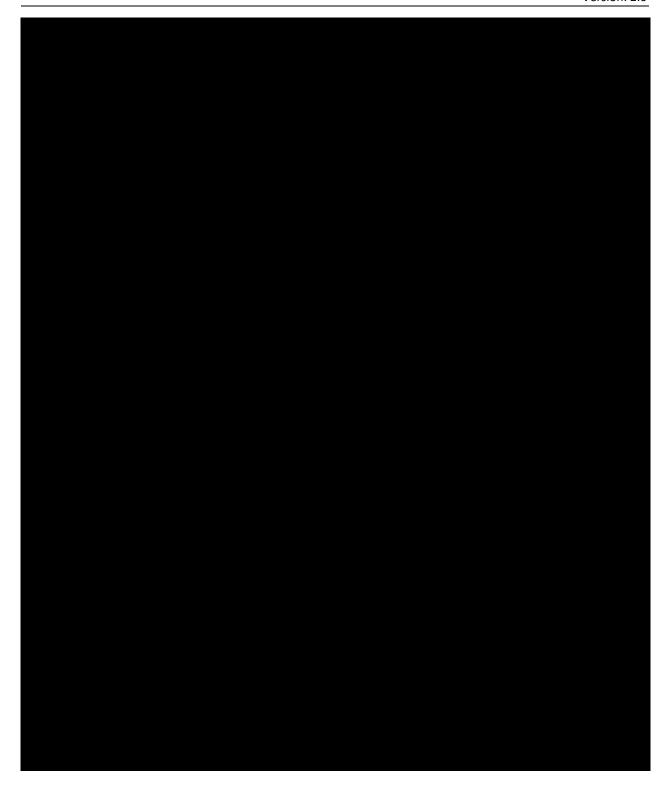
## 2.7 Government Agency Mutual Aid

In addition to the standard government agency duties listed in the Corporate EM Plan, consultations were conducted with the following local agencies.



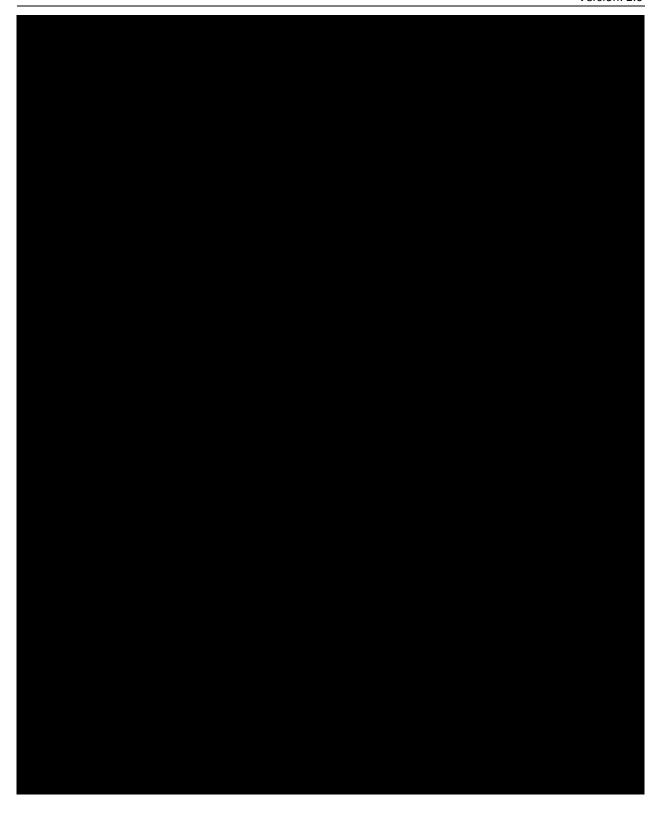


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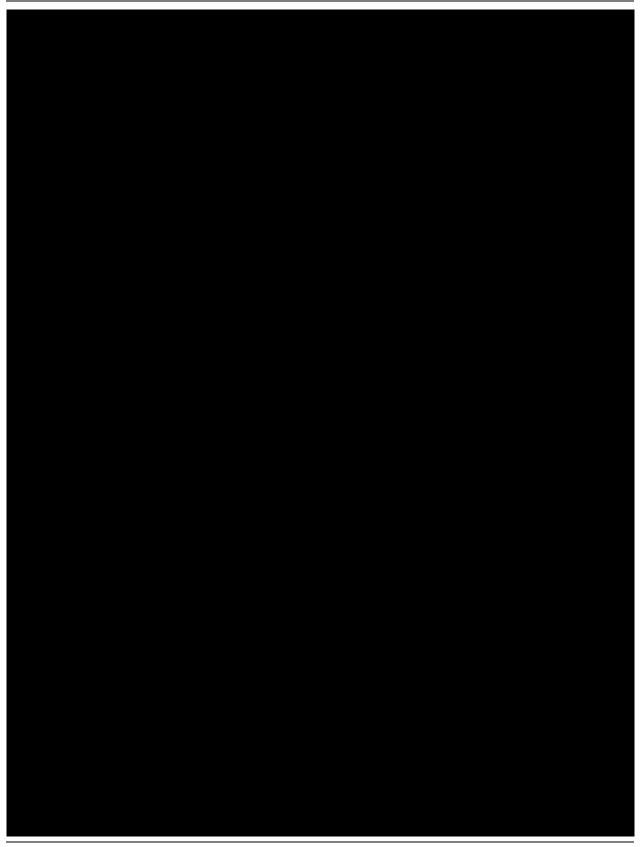


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## 2.9 First Nations and Indigenous Communities

In the event of an emergency, representatives from Pembina's Indigenous Affairs Team will support the Incident Management Team and liaise with local governments to coordinate messaging and response activities.

Any notifications or messaging provided to First Nations and Indigenous Communities by Pembina, or on Pembina's behalf, will be coordinated through Pembina's Indigenous Affairs Team.

## 2.10 Reception Centres

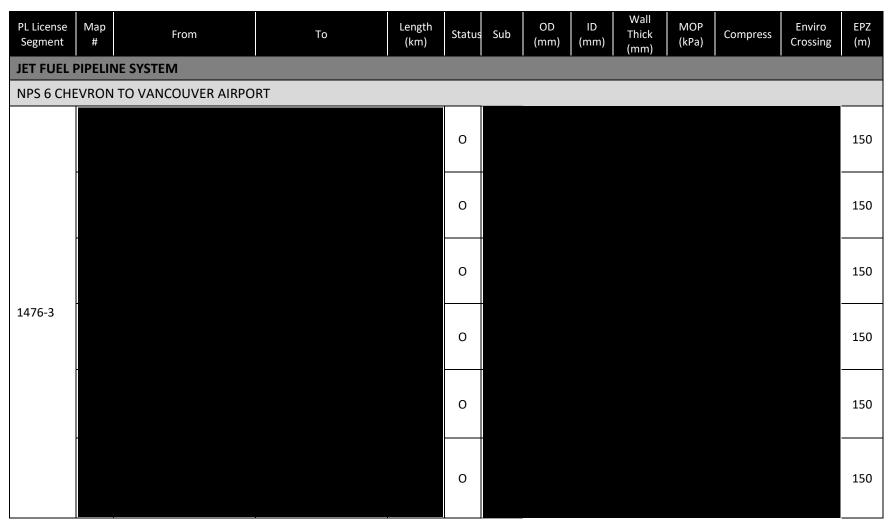
To ensure a coordinated response, Pembina will work with local governments to establish and manage a Reception Centre(s) that will address the immediate needs of the community.

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## 3.0 TECHNICAL DATA

## 3.1 Operated Pipelines



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PL License Segment	Map # From	То	Length (km)	Stat us	Sub	OD (mm)	ID (mm)	Wall Thick (mm)	MOP (kPa)	Compress	Enviro Crossing	EPZ (m)
				0								150
1476-3 (Continued)				0								150
				0								150
1476-18				0								150
				0								150
1476-19				0								150
				0								150
				0								150

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PL License Segment	Map #	То	Length (km)	Stat us	Sub	OD (mm)	ID (mm)	Wall Thick (mm)	MOP (kPa)	Compress	Enviro Crossing	EPZ (m)
				0								150
				0								150
				0								150
1476-19 (Continued)				0								150
				0								150
				О								150
				0								150
1476-15				0								150

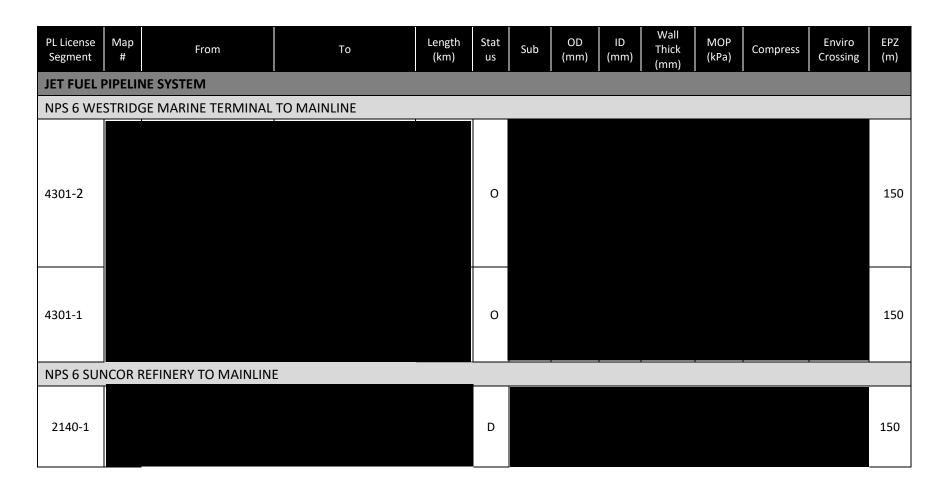
## **EMERGENCY MANAGEMENT PLAN**

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PL License Segment	Map #	From	То	Length (km)	Stat us	Sub	OD (mm)	ID (mm)	Wall Thick (mm)	MOP (kPa)	Compress	Enviro Crossing	EPZ (m)
1476-15 (Continued)					0								150
					0								150
1476-16					0								150
					0								150

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PL License Segment	Map #	From	То	Length (km)	Status	Sub	OD (mm)	ID (mm)	Wall Thick (mm)	MOP (kPa)	Compress	Enviro Crossing	EPZ (m)
JET FUEL F	PIPELIN	IE SYSTEM											
NPS 6 ESS	NPS 6 ESSO LOUGHEED TO SHELL BURMOUNT												
1845-1					D								150
1845-2					D								150
1845-3					D								150
1845-4					D								150
1845-5					D								150
NPS 6 SHE	LL BUR	RMOUNT TO BURNABY	TERMINAL										
25653-1					0								150
25653-4					0								150
25653-3					0								150

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## 4.0 SAFETY EQUIPMENT AND RESOURCES

## 4.1 Operating Area Equipment Listing

Pembina may respond using a wide variety of equipment depending upon the severity of the event. Additional resources may be obtained from area emergency services, mutual aid partners, third party contractors, or additional Pembina owned equipment caches, depending on the nature of the emergency.

For a detailed listing of all Pembina owned response equipment, refer to Pembina's internal intranet portal, *The Pipeline*.

## 4.2 Personal Protective Equipment (PPE)

The following is a list of personal protective equipment employees and contractors are required to wear, as appropriate:

- Fire-resistant clothing
- Hard hats
- Safety glasses
- Safety boots
- Gloves
- Personal monitor

## 4.3 Communications/Radio Frequencies

Landlines at the field office and facilities, cell phones and/or truck radios are regularly used for communications. As required, additional radios and satellite phones will be resourced and used for communications.

In an emergency, confirm the use of any area specific radio channels or special instructions for radio-controlled roads with local personnel.

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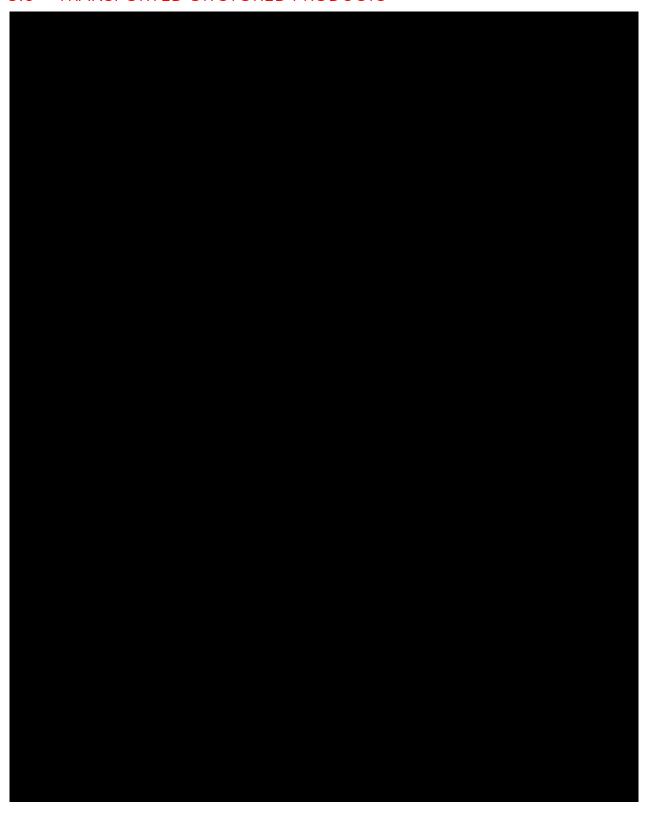
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# 5.0 TRANSPORTED OR STORED PRODUCTS



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## 6.0 SITE-SPECIFIC EMERGENCY RESPONSE PROCEDURES

Initial incident actions and plan activation should occur as set out in the Pembina Corporate Emergency Management Plan.

## 6.1 Incident Notifications / Reporting

Following the onset of an incident, activate the Corporate Emergency Management Plan and follow the Pembina Incident Activation Procedures.

## 6.1.1 Supplemental Notifications

Incident impacting Fraser River or Burrard Inlet		
Agency	Notes	
Vancouver Fraser Port Authority (VFPA)	For spills that impact the Fraser River (from approximately Darby Reach Regional Park to the mouth of the river) and/or Burrard Inlet	
Vancouver Airport Authority (YVR) 24/7 Emergency YVR Operations	For spills that impact the property adjacent to or impacting Airport operations (VRAA controls drainage and sluice gates around the property)	
Other Transportation / Supply Impacts		
Vancouver TransLink	Contact during incidents that have the potential to impact public transit / transportation.	
Vancouver Airport Authority (YVR) 24/7 Emergency YVR Operations	Contact during incidents that have the potential to impact YVR operations and/or in the event of anticipated product supply disruption.	

## 6.2 Hazard Response Zones

A Hazard Planning Zone (HPZ) is defined as an area in which implementation of operational and protective actions might be required during an emergency to protect public health, safety, and the environment.

Pembina engaged consultants to assess and recommend an HPZ for Jet Fuel Pipeline based on the radiant heat of the initial ignition of a pool of product resulting from a catastrophic release. To calculate the HPZ several assumptions were used including, but not limited to, volume released, size of pool, properties of the product, and radiant heat load. Based on these calculations, an HPZ of 150 meters was adopted.

During an emergency, the HPZ is defined initially on the modeled radius related to the pipeline. Plume tracking results may be used to re-define the area impacted by the incident and to reassign resources to enable Pembina personnel to respond appropriately

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#### 6.3 Public Protection Measures

In the event of an emergency, Pembina will enter Unified Command with emergency services and local authorities who will then determine appropriate public protection measures – with support from Pembina responders – and conduct as required.

Aside from the initial public safety measures, broader community evacuation, as well as emergency notifications and communications, will fall under the jurisdiction of emergency services and local authorities. Pembina personnel will support local authority led public protection measures and communications activities, as requested. This assistance may include the sharing of personnel, resources, information, and the preparation of an incident specific evacuation plan.

If the public is immediately threatened in the initial stages of the incident and evacuation is required before local response agencies arrive at the scene of the emergency, the Incident Commander may request available company personnel to initiate evacuation and/or site perimeter security in the immediate vicinity of the facility. Evacuation duties will be turned over to local response agencies as soon as possible.

## 6.4 Response Actions by Hazard Type

General hazard specific emergency response actions are included in the Corporate Emergency Management Plan, including:

- Operational Failure
- Product release: Liquids/Gaseous
- Fire/Explosion
- Extreme Weather/Natural Disaster
- Other Emergency, e.g.,
  - Medical Incident
  - Motor Vehicle/Transportation Incident
  - Security Incident

At the onset of emergency regardless of type, responders should follow Pembina's Initial On-Site Actions available on Pembina's Intranet.

#### 6.4.1 Spill Response

General response actions are included in the *Corporate Emergency Management Plan*, as noted above. For further details and tactical actions, refer to the *Corporate Spill Contingency Manual*.

## 6.4.2 Fire Response

General response actions are included in the Corporate Emergency Management Plan, as noted above. For further details and tactical actions, refer to the *Jet Fuel Airport Terminal Fire-Safety Plan*.

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## 6.4.3 Earthquake / Seismic Activity

An earthquake is a sudden and/or violent shaking of the ground, sometimes causing great destruction and injuries, because of movements within the earth's crust or volcanic action.

In the even that Jet Fuel Pipeline operations are affected by an earthquake it is vital to first ensure personnel safety and immediately notify the on-site supervisor and Sherwood Park Control Centre (SPCC). Known and/or anticipated details including facility, pipeline or equipment damage and shutdowns should also be communicated at this time.

At the outset of an earthquake Jet Fuel personnel should follow the Drop, Cover and Hold-On technique. This technique involves dropping to the ground once shaking is felt and moving underneath sturdy furniture such as a table or desk. Once safely underneath solid furniture cover your head and torso to avoid being hit by falling objects; hold onto the object you are underneath to remain covered.

Once the shaking has stopped remain in place for a least one minute to let any loose objects settle. Before exiting your safe location, scan the area to look for additional hazards that may have developed because of the shaking. Examples may include broken glass, fallen objects and fire. While completing this scan consider the most appropriate means of exiting the building as quickly and safely as possible. Once outdoors, personnel should gather at the pre-determined muster point(s) to complete head counts.

#### If Outdoors

Jet Fuel personnel who are outdoors during the onset of an earthquake should attempt to move to a clear area if it is safe to do so. Extra attention should be paid towards overhead power lines, trees, signs, buildings, vehicles, and other potential falling hazards. The Drop, Cover, and Hold-On technique should be utilized as it will protect individuals from objects thrown horizontally, even if nothing is directly above them.

#### If in a Vehicle

If Jet Fuel personnel are in a vehicle during the onset of an earthquake they should immediately and safely pull over to the side of the road, stop, and set the parking brake. Drivers should avoid overpasses, bridges, power lines, signs, and other hazards. Stay inside the vehicle until the shaking stops. After the shaking has stopped proceed carefully by avoiding fallen debris, cracked or shifted pavement, and emergency vehicles. If a power line falls on the car, stay inside until a trained person can safely remove the wire.

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#### Earthquake Response Checklist

Follow the Drop, Cover and Hold-On technique once an earthquake is felt
Shutdown any transfer/loading operations and secure facilities:
<ul> <li>Close isolation valves and tank valves</li> </ul>
<ul> <li>Shut off nonessential power supplies</li> </ul>
Monitor site for evidence of leaks from pipelines and storage tanks
Notify Pembina supervisory Personnel and SPCC of response steps taken and obtain further
instructions
Evacuate all nonessential personnel and third parties to a safe location
Refer to the facility Fire-Safety Plan in the event of Tank Fire or 3-Dimensional Fire
Secure facility for aftershocks and Exercise caution when entering damaged buildings. Watch for
hazards including, downed power lines, fire, potential ignition sources, flooding related hazards, and
other debris

#### 6.4.4 Tsunami

#### Information

A tsunami is a series of ocean waves generated by a sudden displacement of large volumes of water. The size of tsunami can range from centimeters resulting in strong and unusual currents to tens of meters causing the flooding of coastal land.

Warning time and warning arrangements will vary depending on the proximity of tsunami generation, for example:

- A distant tsunami may arrive over 12 hours after it has been generated.
- An earthquake generated tsunami may arrive approximately 2 hours after it was generated.
- A local tsunami possibly caused by a submarine landslide may arrive at the initial point of impact
  along the coast within minutes. Under these circumstances, limited warning time may be available
  to adjacent coastal communities outside the initial impact area.

The National Tsunami Warning Centre (NTWC) and Emergency Management BC (EMBC) uses the following tsunami alert system:

- Warning;
- Advisory;
- Watch;
- · Information Statement; and
- Cancellation.

#### **Tsunami Warning**

A "Warning" is the highest level of tsunami alert.

Warnings are issued due to the imminent threat of a tsunami from a large undersea earthquake or following confirmation that a potentially destructive tsunami is underway. They may initially be based only on seismic information as a means of providing the earliest possible alert. Warnings advise that appropriate actions be taken in response to the tsunami threat. Such actions could include the evacuation

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of low-lying coastal areas and the movement of boats and ships out of harbours to deep waters. Warnings are updated at least hourly, or as conditions warrant, to continue, expand, restrict or end the Warning.

#### **Tsunami Advisory**

An "Advisory" is the second highest level of tsunami alert.

Advisories are issued due to the threat of a tsunami that has the potential to produce strong currents dangerous to those in or near the water. Significant inundation is not expected for areas under an Advisory, but coastal zones may be at risk due to strong currents. Appropriate actions by emergency management personnel may include closing beaches and evacuating harbours and marinas. Additionally, local officials may opt to move boats out of harbours to deep waters if there is time to safely do so.

#### **Tsunami Watch**

A "Watch" is the third highest level of tsunami alert. Watches are an advance alert that, based on an analysis of the event, may be cancelled, or upgraded to a Warning or Advisory prior to impact. There is a potential threat to a zone contained in a Watch, but communities have time to prepare. Watches are normally based on seismic information, without confirmation that a destructive tsunami is underway. Emergency management personnel and coastal residents should prepare to act in case the Watch is upgraded.

#### **Information Statement**

An "Information Statement" informs that an earthquake has occurred and that there is no threat of a destructive tsunami affecting Coastal B.C. These statements are used to prevent unnecessary evacuations when an earthquake felt in coastal areas has a magnitude that may raise concern about a possible tsunami.

#### Cancellation

A "Cancellation" cancels any previously issued alerts when no there is no longer a threat of tsunami. This notification will be the last bulletin NTWC and EMBC will issue for this event.

#### Response

Jet Fuel Pipeline personnel should understand the difference between a Tsunami Warning, Advisory, and Watch, and the respective response requirements / timelines.

If a tsunami threat is imminent or does occur and impacts Jet Fuel Pipeline, personnel should take steps to ensure the safety of themselves and coworkers. Notify your supervisor and/or the SPCC as soon as safely possible. If time permits:

- Move critical equipment and records to higher ground.
- Remove hazardous materials and dangerous goods from low-lying areas to prevent environmental damage.
- Shut off electricity and electrical equipment, as required. Do not attempt to shut off electricity if water is already present, the combination of water and live electrical current can be lethal.
- Take action to shut down, isolate and de-pressurize equipment, as required.

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Vacate the area as soon as possible if advised to do so by Pembina supervisory personnel, SPCC, and/or emergency authorities. Never ignore an evacuation order because it may endanger your safety, the safety of coworkers or emergency responders who may come to your rescue

If evacuating by vehicle:

- Do not drive through water or flooded underpasses. Water will often prove deeper than it looks, and the vehicle could get stuck or swept away by fast water.
- If you are caught in fast-rising waters and your vehicle stalls, exit, and remain with the vehicle until help arrives.
- Avoid driving across bridges if the water is high and flowing quickly unless advised by local authorities that it is safest evacuation route.

#### Tsunami Checklist

Notify SPCC
If time permits and it is safe to do so, shutdown any transfer/loading operations and secure facilities:
Close isolation valves and tank valves and shut off nonessential power supplies
Never try to walk, swim or drive through swift water
Evacuate if necessary or directed to do so
When tsunami subsides, perform survey to determine if there is sufficient cover over pipeline.
In the event of damage, follow Pembina Corporate EM Plan for site assessment.

#### Recovery

Jet Fuel Pipeline personnel must exercise great caution before returning to a work area after a tsunami has occurred. Re-entry must be approved by Pembina supervisory personnel and/or emergency authorities. Regardless of re-entry approval it is essential that personnel look for and/or report any indications that the area and buildings may not be safe. Indicators to watch for may include:

- Buckled walls or floors.
- Holes in the floor, bent or broken piping, broken glass, and other potentially dangerous debris.
- Water that is heavily contaminated with sewage and other pollutants that can cause sickness and infections.

Electrical components and panels that need to be cleaned, dried, and tested by a qualified electrician. All equipment, heating, pressure, or sewage systems (including appliances) will need to be thoroughly cleaned, dried, inspected and deemed safe before use.

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## 7.0 STAKEHOLDERS AND MAPS

Pembina conducts regular public involvement efforts to ensure stakeholders are provided with information pertaining to the operations in their area, including potential hazards, product characteristics, emergency contact numbers, and appropriate response actions during emergencies.

In the event of an emergency, Pembina will enter Unified Command with emergency services and local authorities who will determine appropriate public protection measures, including requirements for incident notification and communications, and conduct response measures as required. Pembina will support local authorities, as requested.

Refer to Governmental Mutual Aid Agreements for further details.

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