

PEMBINA PIPELINE CORPORATION

CORPORATE EMERGENCY MANAGEMENT PLAN

PEMBINA 24 HOUR EMERGENCY LINE 1-800-360-4706

Version Date: February 2020

Version: 2.0

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PREFACE

Purpose

The purpose of this Corporate Emergency Management Plan (**Corporate EM Plan**) 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 EM Plan applies to Pembina Pipeline Corporation and each of its subsidiaries and/or entities, including: 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., 1195714 Alberta Ltd., Veresen NGL Pipeline Inc., Veresen Midstream Limited Partnership, Vantage Pipeline US LP, 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.

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

Scope

The Corporate EM Plan serves as Pembina's foundational emergency management plan and includes emergency response information relevant across the company and applicable at all sites and pipeline systems operated by Pembina.

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

The Corporate EM Plan 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 EM Plan 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 EM Plan.

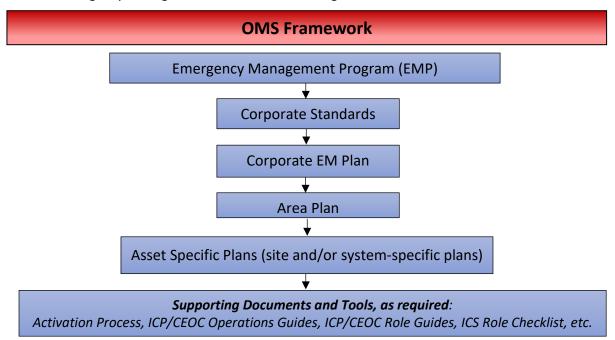
Responders are responsible to review and familiarize themselves with the contents of the Corporate EM Plan, as well as the applicable Area Plan(s), applicable to their working area(s).

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

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Document Navigation

Pembina Emergency Management documentation is organized as follows:



Introduction

Pembina operations include gas gathering and processing infrastructure, and midstream and marketing services within Canada and into the United States.

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; and
- 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 EM Plan is readily available to employees in electronic format on *The Pipeline*. Personnel are encouraged to use *The Pipeline* to access the Corporate EM Plan.

Controlled printed copies of the Corporate EM Plan are recorded and tracked through Pembina's internal tracking systems.

External Distribution

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

The manual distribution listing has been removed from the publicly posted version of the Corporate Emergency Management Plan for the protection of private or confidential information.

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

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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

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

E-mail: Emergency.Management@pembina.com

PLAN REVISION IDENTIFICATION INFORMATION					
PLAN NAME:					
VERSION NUMBER/DATE:	SECTION NUMBER:	PAGE NUMBER:			
REVISION REQUESTED BY:	ORGANIZATIO	DN:			
	DESCRIPTION OF REVISION				
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	EM TEAM USE ONLY				
REVIEWED/APPROVED BY:		CORRECTIVE ACTION NO.:			
If not approved, provide explanation and	d date follow up communication	n to Requestor completed.:			
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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 **Sherwood Park Control Center (SPCC)**, and to the appropriate regulatory body, as required, in accordance with the Corporate EM Plan. 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).

The activation process diagram has been removed from the publicly posted version of the Emergency Management Plan for the protection of private or confidential information.

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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 *EM Activation Process* and *ICP Operating Guide*.

Additional details about ICP roles and responsibilities are available in <u>Section 3.0 Emergency Response</u> 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 <u>Section 3.0 Emergency Response</u> <u>Roles and Responsibilities</u> 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

Descriptor	Health & Safety	Environmental and Regulatory	Financial	Operational	Reputation			-1	ikelihood		
Catastrophic/ Extreme	Multiple loss of life and/or serious long- term health implications as a result of the company's actions.	Major long term widespread environmental incident; pr significant long term mitigation required; or significant risk to "Social License to Operate".	Equipment damage or production costs greater than \$200,000,000.	Major production outage with lengthy response time & extensive damage.	Sustained major negative press coverage or analyst reports; or national coverage for sustained periods; or stakeholders begin to lose faith and some withdraw support.	5	М	М	н	VH	VH
Major	Single loss of life and/or some long- term health implications as a result of the company's actions	with significant pollution/contamination; or possibility of revocation of regulatory license.	Equipment damage or production costs between \$20,000,000 & \$200,000,000.	A critical event with a long recovery period which stretches plans to the limit and requires significant management effort to endure; or major failure, quickly controlled; or major damage.	Long-term negative media focus and/or sustained concerns raised by more than one key stakeholder; or prolonged area attention/difficult to resolve.	4	,	М	н	Ĥ	VH
Moderate	Lost time injury and/or significant health effects.	Onsite release outside designed containment; or impact extends beyond property line and noticeable odours and/or visible emissions migrating beyond property boundary resulting in potential complaint from neighbouring property; or significant cleanup efforts required; or a non-compliance incident resulting in enforcement.	Equipment damage or production costs between \$2,000,000 & \$20,000,000.0	A significant event which can be managed through existing processes; or a major failure, quickly controlled with minor damage.	Medium-termnegative media focus; or short term credibility concern, quickly resolved; or brief area attention.	3	ı	M	М	н	н
Minor	Reportable incident and/or minor injuries.	Onsite release within designed containment; or minor cleanup efforts required; or incident reportable to regulator.	Equipment damage or production costs between \$200,000 &\$2,000,000.	Impact of event requires actions that can be managed through existing processes; or a minor failure, quickly controlled, loss.	Short-term negative media focus; or negative analyst reports/press and employees disgruntled; or isolated incidents/resolvable.	2	Ĺ	Ĭ.	М	М	M
Insignificant	Non-reportable incident; or incident with no injuries.	Controlled or minor non- reportable release.	Equipment damage or production costs less than \$200,000.	Impact of event can be absorbed through normal activity; or minor incident.	Minimal impact on public; or no media attention.	1	ţ	Ĺ.	i	i.	М
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L = Lov	W IV	= Medium H = High	νп =	· Very High	Description		Remote occurrence in industry	Remote occurrence in company, Occasional occurrence in industry	Occasional occurrence in company.	Common occurrence in unit.	Frequent repeat occurrence in unit
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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> <u>Regulatory Support and Reporting.</u>

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

1.10.1 The Pipeline

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

1.10.2 The Map

The Map 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. The Map is available through *The Pipeline*.

Responders are encouraged to use *The Map* in response activities.

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1.10.3 Live Asset / Technical Data

Live operational, asset, and technical data is also available on *The Map* 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).

1.10.4 Emergency Response Equipment Inventories by Location

Responders are encouraged to use *The Pipeline* 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 Activation Guide	Provides initial on-site actions for first responders (Canadian and U.S. versions)
Activation Guide	Provides supplemental information about Pembina's activation process.
ICP Operating	Provides supplemental information on roles and responsibilities associated with the ICP and include:
Role Guides	ICP Operating Guide
	ICP ICS Organization Guides
CEOC Operating	Provides supplemental information on roles and responsibilities associated with the CEOC and include:
Role Guides	CEOC Operating Guide
	CEOC ICS Organization Guides
ERAC Guide	Provides supplemental information on ERAC, including how and when to activate an ERAP.
SPCC Guide	Provides guidance to Sherwood Park Control Centre (SPCC) personnel on their roles and responsibilities during an emergency.
ERG2016	Designed for use at a dangerous goods incident, occurring on a highway or railroad, to provide guidance to aid first responders for quickly identifying the hazards associated with material(s) involved in an incident.

1.11 Downgrading the Incident

Pembina will make the decision to downgrade the regulatory Level of Emergency as appropriate, in consultation with the applicable regulator(s). In Alberta, the AER may consult other applicable government agencies and confirm with the licensee that the emergency downgrade or stand-down is appropriate.

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 EM Plan, 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 EM Plan 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 (not exceeding 15 months), 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 the **Pembina Learning System (PLS).**

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2.2 Exercise Requirements

Pembina conducts a broad range of emergency response drills and 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. Exercises are scheduled on an annual basis (not exceeding 15 months); type and frequency is established according to applicable regulatory requirements and best practices. Further information is available in the appropriate EMP documents.

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/State, 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 EM Plan 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)

Pembina's EMP includes a MOC standard which is used by Pembina to confirm that changes to existing and future facilities, controlled documents, and key personnel are properly recognized, reviewed, approved, communicated, and documented.

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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 and/or Section Chief(s) until tasks are assumed or delegated to additional roles as an incident becomes larger expanding the structure.

All emergency response personnel must clearly understand their assigned emergency duties. Response personnel who have been assigned specific duties must communicate with their designated alternate to ensure the transfer of emergency response duties and accountability is understood and can be accomplished.

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 (see EM training and competency standards for further information).

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, as required. If it is determined that unified command is needed, Incident Commanders representing agencies or jurisdictions that share responsibility for the incident manage the response from a single 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.

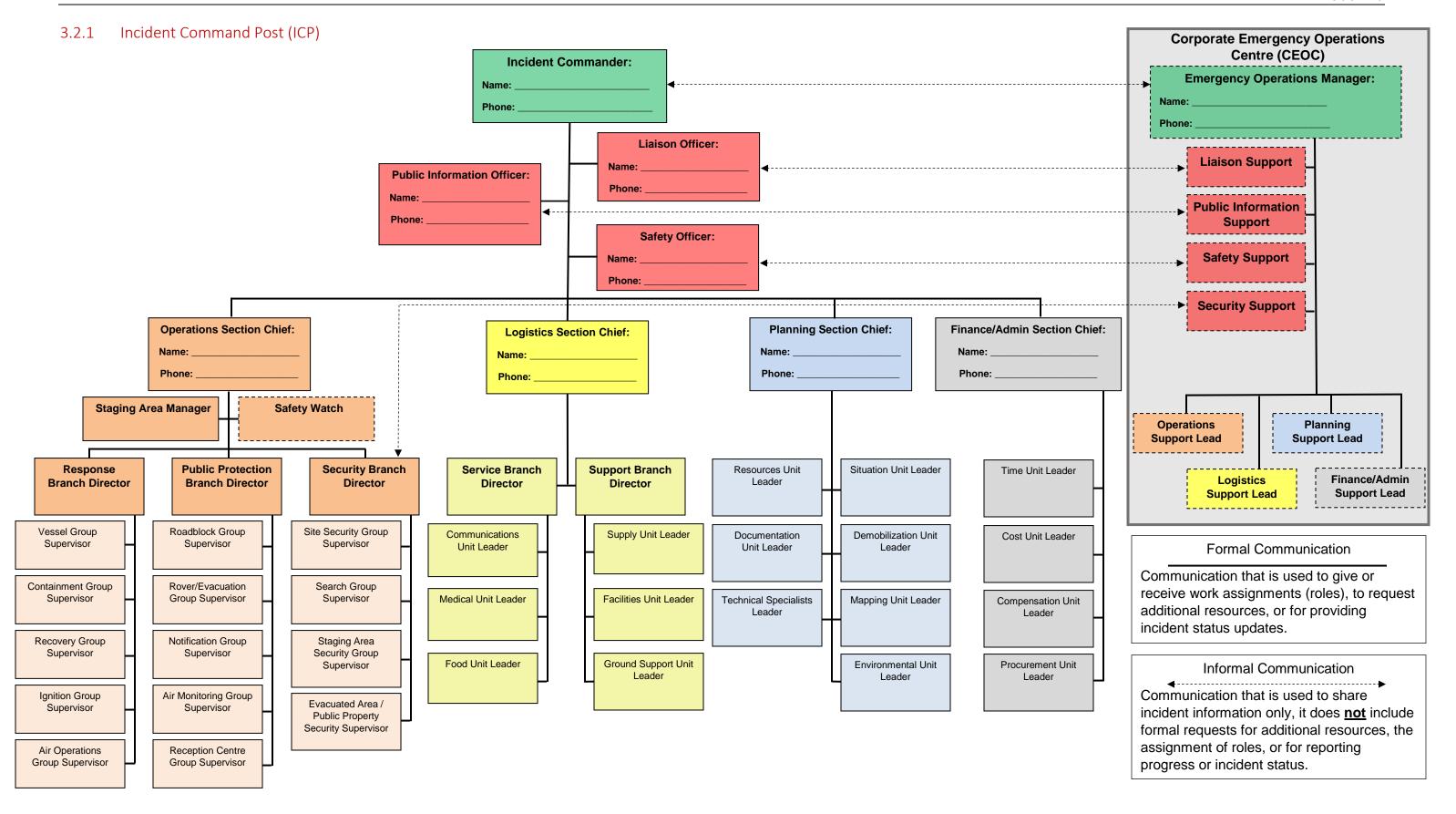
3.2 ICS Organization Charts

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, established level of emergency, and anticipated resource needs. The scale and complexity of the emergency can vary from requiring one person (the IC) or an entire team (FIMT/CIST) to resolve the incident. Regardless of the size, the Incident Commander 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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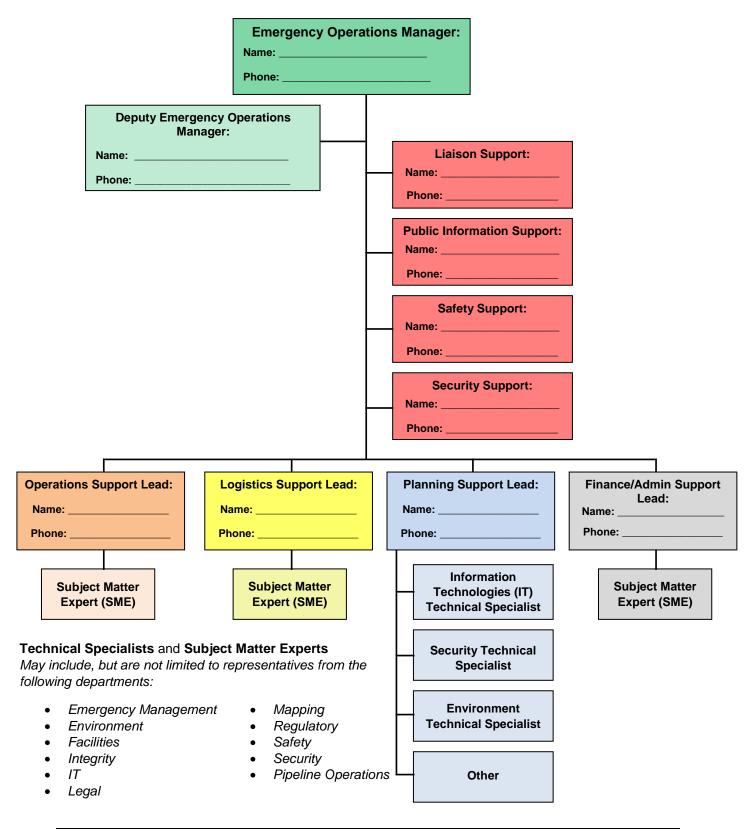


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3.2.2 Corporate Emergency Operations Centre (CEOC)



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3.3 ICS Roles and Responsibilities

CIST and FIMT personnel collectively make up 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.

Revision Date: May 2020

Version: 2.1

3.3.1 Incident Commander

	In ald and	0				
Incident Commander						
Potential Designates	District Manager, Senior A Foreman	District Manager, Senior Area / Plant Manager, Area Supervisor, Area / Plant Foreman				
CEOC Counterpart	Emergency Operations M	lanager				
Forms / Tools	_	m, 202 Incident Objective, 209 Incident Status,				
·	214a Individual Activity L					
R	tole	Responsibilities				
The Incident Command providing direction and Incident Management		Ensure initial notifications of the incident are performed and initiate the opening of the ICP.				
The IC analyzes the ove	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 accomnecessary Command ar	plished by identifying the nd General Staff functions sponse, setting priorities,	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.				
1.	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	. The Deputy IC must	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	-	uide for further details. line. Hard copies are available in the ICP.				

Revision Date: May 2020

Version: 2.1

3.3.2 Liaison Officer

	Liaison Officer				
Potential Designates	Field / Plant Personnel or design	nate			
Reports to	Reports to Incident Commander				
CEOC Counterpart	Liaison Support Lead				
Forms / Tools	201 Incident Briefing Form, 202	Incident Objective Form,			
Forms / Tools	214a Individual Activity Log				
	Role	Responsibilities			
stakeholders and represed provide input on incident External stakeholders, and agencies and organization Liaison Officer. These stathe type of incident but memergency services, munipurisdictions, and private of the Liaison Officer will repobjectives to the Field Incomplete (FIMT) throughout the plate The Liaison Officer coordinates Support Lead at the Corporation (CEOC). If requesting the provided in the Corporation of the CEOC).	as the primary contact for natives of other agencies to related matters. d/or representatives from as coordinate through the keholders will vary according to any include regulators, cipal, provincial and federal entities. Dresent their concerns and ident Management Team anning process. Inates closely with the Liaison orate Emergency Operations and officer	Conduct regulatory notifications as required by the incident. Report regulatory Level of Emergency, using appropriate matrix, where required. 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.			
may delegate some of the responsibilities of the ICP	regulatory notification to the Liaison Support Lead.	Maintaining a list of assisting and cooperating agencies and agency representatives			
Digital version	See complete <i>Role Guide</i> for the savailable at <i>The Pipeline</i> . Hard	urther details.			

Version Date: February 2020

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3.3.3 Public Information Officer (PIO)

	Public Information	n Officer					
Potential Designates	Field / Plant Personnel or de	esignate					
Reports to	Incident Commander						
CEOC Counterpart	Public Information Support	Lead (PIS)					
Forms / Tools	201 Incident Briefing Form,	214a Individual Activity Log					
R	ole	Responsibilities					
The Public Information Off developing and releasing in incident to the media, to the personnel, Pembina emplo	ne public, to incident	Advise the Incident Commander on all public information matters relating to the incident. Maintain regular contact with the					
appropriate agencies and o	organizations.	Public Information Support (PIS) Lead in the CEOC.					
the Communications Team	izational structure, most of reside in the Corporate nlikely that an experienced	Identify key information that needs to be communicated externally and internally.					
	be conducted by the rations Centre (CEOC) with	Act as the point of contact for all public information issues from external agencies and organizations involved in the response.					
the PIO acting as a point of contact within the ICP. If required, the Incident Commander may request a Communications Strike Team be deployed from the response. Ensure the Incident Commander verifies the accuracy of information produced by the PIS							
Calgary to take on the role this Strike Team will report Commander and take on the		Disseminate authorized messages across the response using the most effective means available.					
Digital version	See complete <i>Role Guide</i> fois available at <i>The Pipeline</i> . H	or further details. ard copies are available in the ICP.	1				

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3.3.4 Safety Officer

3.3.4 Safety Officer						
	Safety	y Officer				
Potential Designates	Area Safety Advisor					
Reports to	Incident Commander					
CEOC Counterpart	Safety Support Lead					
		Form, 202 Incident Objectives, 206 Medical Plan,	,			
Forms / Tools	208 Safety Plan, 214a	Individual Activity Log,				
	Hazard Assessment / 2	215a Safety Analysis				
Role		Responsibilities				
The Safety Officer develop	s and recommends	Assess the health and safety of personnel				
measures to ensure persor	nnel safety and	impacted by a response and advise the				
occupational health of not	only response	Incident Commander on issues regarding				
workers, but also the publi	ic. This is done using	safety.				
Pembina's normal safety p	rocedures and	Identify and mitigate hazardous situations.				
information in the Plan.		Develop and recommend measures for]			
		assuring personnel and public safety.				
They anticipate, recognize, hazardous and unsafe conduct requires respondent activities outside in	ditions or situations. If onse personnel to	Assess the strategies and tactics to be implemented and develop safety strategies to ensure the safety of responders.				
activities, the Safety Office mitigation strategies to en	•	If necessary, develop an incident specific Safety Plan.				
safety of response personr the public.		Exercise emergency authority to stop and prevent unsafe acts.				
If necessary, they develop	a specific Incident	Investigate accidents that have occurred within the incident area.				
Safety Plan to cover all act response. They may also be and approve the Medical P	ivities relating to the e required to review	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 o							
Reports to	Incident Commander							
CEOC Counterpart	Operations Support Lead							
·		04 Assignments List, 214a Individual Activ	vitv					
Forms / Tools	Log, 215 Operational Planning		,					
	Role	Responsibilities						
The Operations Section Ch		Developing and organizing the						
	itions at an incident. They will	Operations Section to deliver the						
	ise all the resources needed	objectives considering operational						
		efficiency, personnel safety and						
to accomplish the incident	objectives.	adequate Span of Control.						
During the planning proces	ss, the OSC also directs the	Managing and ensuring the safety of						
	nd tactics required to execute	tactical operations.						
the Incident Action Plan (IA	•	Developing the operations portion of						
·	eports progress against the	the IAP.						
incident objectives.	eports progress against the	Supervising the execution of the						
meident objectives.		operations portions of the IAP.						
The exact structure of the	Operations Section will vary	Requesting additional resources to						
according to the needs of t	the incident. Typically, for	support tactical operations.						
every objective developed	, a unit in the Operations	Approving the release of resources						
Section would be establish	ed to deliver the objective.	from active operational assignments						
As a result, the Operations	Section can grow quite large	Maintaining close contact with the						
quite quickly. The OSC mu	st maintain an effective Span	IC, Command Staff, Operations						
' '	n3/max7) and this may require	personnel and other agencies						
	ns Section. This can be done	involved in the incident.						
	Groups, Strike Teams, Task	During the execution of the IAP, the						
_	. Each of these organizational	OSC may make or approve changes						
elements will have a super		to the plan but must inform the						
reports only to their respen		Incident Commander immediately of						
reports only to their respec	ctive supervisor.	these changes.						
If required, the OSC may a	ctivate the following subunits to	assist in the execution of objectives:						
	re established for the temporar	y location of available resources prior to						
deployment.	sh. Established to answer the	foty of the public and stakeholders						
		fety of the public and stakeholders	٠, ٠					
I -	blished to conduct all containin	ent and clean-up activities in the event c	ла					
· ·	spill or release.							
 Security Branch: Established to conduct tactical security activities such as security of evacuated areas. 								
	Each of the Branches may activate additional groups to meet the needs of the incident if required.							
Lacif of the branches flidy		·						
Digital version	See complete <i>Role Guide</i> for is available at <i>The Pipeline</i> . Har	further details. d copies are available in the ICP.						
	•	•						

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3.3.6 Logistics Section Chief

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

The Logistics Section Chief 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 Logistics Section Chief.

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 S	ection 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,					
FUITIS / TUUIS	214a Individual Activity Log,		204 Assignments List, 205 Incident Radio					
	215 Operational	Planning	Communications Plan, 206 Medical Plan,					
	Worksheet		208 Safety Plan					
Role			Responsibilities					
		Ensuring the Plan	nning cycle is adhered to.					
The Planning Section C	hief coordinates	Maintaining and displaying situation status.						
all planning activity wit		Collecting and managing all incident -related data and						
facilitate the ICP plann		intelligence.						
produce the 201 Incident Briefing Form		Preparing the IAP including documenting, assembling,						
·	and subsequent Incident Action Plan		printing and distribution of the IAP.					
•	(IAP) which includes the objectives		Developing alternative strategies.					
validated by the IC.	c objectives	Providing a primary location for technical specialists						
validated by the IC.		assigned to an incident.						
They also provide esse	They also provide essential information		Providing documentation services.					
regarding the organization, work		Tracking and identifying resource shortages.						
assignments, and resources for the		Maintaining resource status.						
planned operational period.		Preparing the Demobilization Plan						
One of the most impor	tant functions of	The Planning Section may activate the following if required:						
	One of the most important functions of		Situation Unit: Collects, prepares and displays					
the Planning Section Chief is to look		information about the response.						
· ·	beyond the current and next operational period and anticipate		Documentation Unit: Prepares the Incident Action					
	•	Plan and maintains all incident documentation.						
potential problems or o		Demobilization Unit: Develops the plan for the safe						
experts may supplement the planning section to assist with the development		and orderly onward movement of resources used in						
	•	the response.						
	of plans. The Planning Section is busy		Mapping Unit: Generates incident-specific mapping.					
through the entire incident life-cycle.		Environment Unit: Advises on environmental impacts						
Therefore, the Planning Section Chief		and develops environment related plans.						
may activate additional units to assist		Resources Unit: Establishes the check-in procedure for						
in the delivery of the planning function.		an incident and tracks the status of key resources.						
			pecialist Unit: Provides an initial location	วท				
	6-7		ng Technical Specialists.					
See complete <i>Role Guide</i> for further details.								
Digital vers	Digital version is available at <i>The Pipeline</i> . Hard copies are available in the ICP.							

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3.3.8 Finance / Administration Section Chief

Finance and Administration Section Chief							
Potential Designates	Field Administration or Supply Chain Support						
Reports to	Incident Commander						
CEOC Counterpart	Finance and Administration Support Lead						
Forms / Tools	201 Incident Briefing Form, 214a Individual Activity Log; 215 Operational Planning Worksheet						
Ro	ole	Responsibilities					
The Finance and Administration Section Chief is responsible for managing all financial and cost analysis aspects of an incident.		Managing all the financial aspects of an incident.					
		Providing financial and cost-analysis information, as requested.					
There are four functions that are fulfilled by the Finance and Administration Section. Unless these are activated, the Finance and Administration Section Chief will need to perform all these functions: Time Unit: responsible for ensuring the accurate recording of daily personnel time, compliance with specific agency time recording policies, and managing commissary operations if established at the incident.		Ensuring compensation and claims are addressed.					
		Gathering pertinent information from briefings with other support agencies.					
		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.					
		Meeting with other support Agency Representatives, as needed.					
Procurement Unit: res	ponsible for all	Maintaining regular contact with the CEOC on finance matters.					
financial matters pertaining to vendor contracts, leases, and fiscal agreements. Compensation/Claims Unit: responsible for all injury related compensation and claims		Ensuring all incident related documents are properly prepared and completed					
		Briefing the Command and General Staff on incident related financial issues needing attention or follow-up.					
made against Pembina	during the response.	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 a unified command is established, representatives from 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.					
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 Area Manager			
Potential Designates	Field or Plant Personnel, C	Contract Safety or Security Company	
Reports to	Operations Section Chief	Operations Section Chief	
Forms / Tools	201 Incident Briefing Forn Individual Activity Log, Pu	n, Incident Action Plan, 211 Check-In List, 214a blic Information Scripts	
F	Role	Responsibilities	
The Staging Area Mana	ger establishes the	Establishing the staging area.	Ш
Staging Area and subseresources within it that	equently manages the care 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		 The current situation. Likely tasks to be executed. Safety procedures to be used 	
		Organizing resources into Strike Teams and Task Forces.	
deployment. The Staging Area Mana	ger will work closely with	Ensuring Resources are checked into the incident.	
other members of the	Command and General cking of information and	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.	
 Enabling the check-in procedure on behalf of the Planning Section Resources Unit. Acting as a goods receiving station on behalf 		Providing regular updates to the Operations Section Chief on the status and availability of resources in the staging area.	
of the Logistics Secti		orida for formition and atable	
Digital versi	•	uide for further details. line. Hard copies are available in the ICP.	

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3.3.10 Safety Watch

5.5.10 Safety Wa		v Motob	
Detential Designates		y Watch	
Potential Designates Reports to	Operations Section Chief	Contract Safety or Security Company	
-	201 Incident Briefing Form, Incident Action Plan, 214a Individual Activit		Og
Forms / Tools	Public Information Scripts	· · · · · · · · · · · · · · · · · · ·	.06,
	Role	Responsibilities	
•	during the response are	Ensuring the safe conduct of tactical operations.	
safety procedures. This	ce with normal Pembina may require: entations to third parties	Ensuring tactical operations are conducted in accordance with normal Pembina safety procedures and / or the Incident Safety Plan.	
 involved in the resp Reviewing certificat Ensuring mutual aid procedures meet or 	ions. partners and contractors	Ensuring enough safety personnel are available to support and observe tactical operations.	
procedures meet or procedures. • The support and obs		Providing orientations to response personnel.	
actions being condu being completed sa	cted to ensure they are fely.	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.	
all the responsibilities	of Safety Watch during a Vatch Leader will assign	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.	ı

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3.3.11 Response 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	e Operations Section Chief, the	Implementing any response and recovery measures required.	
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			
ignition of any plume.	on criteria are met, implements the	Maintaining an effective structure for the Response Branch.	
-	Coordinates the deployment of all air copter, drone) in support of the		
contracted third partie	y be conducted by Pembina personnel, s, regulatory bodies, local authorities rs. The Response Branch Director may	Managing the information gathered by the Groups within the Response Branch.	
responding to an incide		Coordinating and directing the	
implementation of pub	Director is also responsible for blic protection measures at the site. For ures 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 vers	See complete <i>Role Guide</i> for furth ion is available at <i>The Pipeline</i> . Hard cop		

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3.3.12 Vessel Group Supervisor

	Vessel Gro	up Supervisor		
Potential Designates	Field or Plant Personnel, C	Contract SME		
Reports to	Response Branch Director	Response Branch Director		
Forms / Tools	201 Incident Briefing Forn Public Information Scripts	n, Incident Action Plan, 214a Individual Activity L	og,	
F	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. 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.		Ensuring the safe conduct all on water activity.		
		Implementing strategies and tactics for the defined control points.		
		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.		
Digital vers		uide for further details. line. Hard copies are available in the ICP.		

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3.3.13 Containment Group Supervisor

	Containment C	Group Supervisor	
Potential Designates	Field or Plant Personnel, C	Contract SME	
Reports to	Response Branch Director		
Forms / Tools	201 Incident Briefing Form Public Information Scripts	n, Incident Action Plan, 214a Individual Activity L	.og,
	Role	Responsibilities	
The Containment Grou	p Supervisor coordinates d-based containment	Ensuring the safe conduct all Containment Group activity.	
activities. In the event waterway the Contains will coordinate and sup	ment Group Supervisor	Implementing strategies and tactics for the site(s).	
·	control points. This will	Coordinating all Containment Group activity.	
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.		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	
Digital vers	-	uide for further details. line. Hard copies are available in the ICP.	

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3.3.14 Recovery Group Supervisor

	Rec	overy Group Supervisor		
Potential Designates	Field or Plant Per	rsonnel, Contract SME		
Reports to	Response Branch	Response Branch Director		
Forms / Tools	201 Incident Brie	fing Form, Incident Action Plan, 214a Individual Activity L	.og,	
FOITIS / TOOIS	Public Information	on Scripts		
Role		Responsibilities		
The Recovery Group Su coordinates and imple	•	Ensuring the safe conduct all clean-up and recovery activities.		
up and recovery-based may have to coordinat over a wide geographic	e this activity	Implementing strategies and tactics defined by the Response Branch Director.		
incorporating multiple		Coordinating all Recovery Group activity.		
The Recovery Group Supervisor implements the strategies provided by		Providing regular updates to the Response Branch Director on the progress of Recovery Group activities.		
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		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		
decontamination procedures are established and correctly utilized across all response activities.		Ensuring all necessary decontamination procedures are implemented at relevant incident locations.		
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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3.3.15 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 Action Plan, 214a Individual Activity Log		
	Role	Responsibilities		
	ervisor coordinates and implements the ignition criteria are met.	Ensuring the safe conduct ignition.		
 Note: 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. The decision to ignite will be fully supported by Pembina as 		Ensuring only qualified personnel ignite the release.		
		Documenting all activities and decisions made by the Ignition Group.		
 long as the decision-making process has been followed and documented. However, if time permits, consultation with the Operations Section Chief, Incident Commander, Emergency Operations Manager, and Regulator should be conducted. 		Providing regular updates to the Response Branch Director on the progress of Ignition Group activities.		
Digital versi	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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3.3.16 Air Operations Group Supervisor

	Air Operations Group Supervisor			
Potential Designates	Field or Plant Personnel, Con	Field or Plant Personnel, Contract SME		
Reports to	Response Branch Director	Response Branch Director		
Forms / Tools	201 Incident Briefing Form, II Public Information Scripts, 22	ncident Action Plan, 214a Individual Activity L 20 Air Operations Summary	.og,	
	Role	Responsibilities		
the deployment of all a	oup Supervisor coordinates air assets (fixed wing, upport of the response.	Coordinating all Air Operations Group activity.		
T =	oup 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 Operations Supervisor will oversee these logistical elements of the Group.		Monitoring of air asset utilization.		
		Establishment and maintenance of locations from which air assets can		
· ·	pervisor schedules flights and	operate.		
advises the Response E utilization of air assets.		Providing regular updates to the		
The Air Operations Supervisor does NOT conduct air traffic control. Only suitably qualified third-party personnel can conduct this task.		Response Branch Director on the progress of Air Operations Group activities.		
Digital vers	See complete Role Guid ion is available at The Pipeline	e for further details. e. 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	Operations Section Chief	
Forms / Tools	201 Incident Briefing Form Public Information Scripts	n, Incident Action Plan, 214a Individual Activity L	.og,
ŗ	Role	Responsibilities	
The Public Protection Branch Director is responsible for implementing all public protection measures during 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 settin groups:	g up the following	 Air monitoring. Notification of the public and 	
Roadblock Group: Con	trol access into the EPZ.	stakeholders.	
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.		 Ensuring the impacted area is clear of members of the public. Providing evacuation assistance to persons impacted by the incident. 	
		Coordination of activities at reception centres established to house displaced members of the public.	
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	ip: 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.		Coordinating and directing the activities of the Groups within the Public Protection Branch.	
The Public Protection E people so maintaining control is essential.	Branch can contain many an effective span of	Providing regular updates to the Operations Section Chief on the status of public protection measures across the response.	
Digital versi		uide for further details. line. Hard copies are available in the ICP.	

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3.3.18 Roadblock 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	Public Protection Branch Director		
Forms / Tools	201 Incident Briefing Form, Incident Public Information Scripts	Action Plan, 214a Individual Activity L	.og,	
	Role	Responsibilities		
assigned roadblock pos area and communication	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 Ai The locations of the ro-	r Monitoring stations. adblocks are determined by the	Controlling access into and out of any controlled areas.		
Public Protection Branch Director. However, they may delegate the identification of roadblock locations to the Roadblock Group Supervisor.		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.		
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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3.3.19 Rover/Evacuation Group Supervisor

3.3.13 Novel/Eva	•	•		
		vacuation Group Supervisor		
Potential Designates	Field or Plant Pers	Field or Plant Personnel / Contract SME / First Responder or Local Authority		
Reports to	Public Protection	Branch Director		
Forms / Tools	201 Incident Brief Public Information	ing Form, Incident Action Plan, 214a Individual Activity L n Scripts	.og,	
Role		Responsibilities		
The Rover and Evacuat to assigned locations to	o locate the public	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 lar require the Rover and to utilize beliconters or	Evacuation Group	Clearing locations where telephone contact cannot be made.		
to utilize helicopters or drones to locate members of the public in controlled areas. If necessary, they will provide assistance with evacuation.		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.		
Digital vers	•	e Role Guide for further details. The Pipeline. Hard copies are available in the ICP.		

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3.3.20 Notification Group Supervisor (Telephoners)

	Notification Group Su	upervisor (Telephoners)		
Potential Designates	Field or Plant Personnel /	· · · · · · · · · · · · · · · · · · ·		
Reports to	Public Protection Branch [
Forms / Tools		201 Incident Briefing Form, Incident Action Plan, 214a Individual Activity Log, Notification Scripts, Public Information Scripts		
F	Role	Responsibilities		
	Supervisor is responsible abers of the public located be conducted in two	Coordinating and directing the activities of personnel within the Notification Group.		
the confidential vers	•	Ensuring members of the public are provided the appropriate public protection messages.		
Plan. This guide refers to the actions to be undertaken during manual notification only and does not contain information about how to operate ERNS.		Logging and tracking the status of resident notifications throughout the response.		
Personnel who may redinclude: Residents. Schools / School Businesses including companies, rail, logg Public Facilities and Urban Centres (cont coordinate). Trappers, Guides / Contractions of the coordinate of	Transportation. To other oil and gas Ting, farming etc. The content of the conten	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.		
an EPZ who may requir and subsequent evacua	aining to residents within e notification of an event ation are contained in the sset Specific Plan marked	Maintaining contact with residents throughout the response.		
Digital versi	•	uide for further details. line. Hard copies are available in the ICP.		

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3.3.21 Air Monitoring Group Supervisor

	Air Monitoring Group Supervisor			
Potential Designates	Field or Plant Personnel / Contract SME			
Reports to	Public Protection Branch Director			
Forms / Tools	201 Incident Briefing Form, Incide Public Information Scripts	nt Action Plan, 214a Individual Activity L	.og,	
	Role	Responsibilities		
The Air Monitoring Group is responsible for acquiring and providing air quality readings. This may be done directly using Pembina personnel or through third parties contracted to provide the service. Coordinating and directing the activities of personnel within the Air Monitoring Group, including any subcontracted third parties or				
	ithin the Public Protection Branch	mutual aid partners.		
may also provide air monitoring results through their own personal monitors. The Air Quality Group is responsible for coordinating all these results and producing a single consolidated report. H ₂ S, SO ² , 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.		
Public Protection Brand	nitors continuously update the ch Director with monitored	Tracking vapor plumes (if required.)		
results. If air monitoring readings show high levels of H_2S , SO^2 , 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.		
Digital vers	See complete <i>Role Guide</i> for ion is available at <i>The Pipeline</i> . Har		•	

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3.3.22 Reception Centre Group Supervisor

	Reception Centre Group	Supervisor	
Potential Designates		t SME / First Responder or Local Authori	ty
Reports to	Public Protection Branch Director		
Forms / Tools		nt Action Plan, 214a Individual Activity L	.og,
1011113 / 10013	Public Information Scripts		
	Role	Responsibilities	
-	on Centre Group Supervisor will te Local Authority or Pembina centre.	Liaison with the Local Authority Reception Centre Manager.	
Local Authority Recept			
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.	
 purposes. No matter who establishes a reception centre the following apply: In order to account for evacuees, close coordination within the Public Protection Branch will be required. Community relations support must be deployed. This 		Providing regular updates to the Public Protection Branch Director on: The status of activities at the reception centre. Residents who have arrived at the	
should be requested Branch Director.	the CEOC based in Calgary and through the Public Protection See complete Role Guide for ion is available at The Pipeline. Har		

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3.3.23 Security Branch Director

5.5.25 Security bi	Socurity P	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.		
 Staging Areas. Reception Centres. Incident Sites. Incident Facilities. This includes implement and controlling access. 	nting security measures	Ensuring only authorized personnel have access to the response location.		
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 Manager directly rather than the Security Branch Director. In these cases, the title Security Unit Leader rather than Security Group Supervisor is used. The Security Unit Leaders report to the relevant		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 rather Branch Director. The roles and responsil Group Supervisor and a are identical, only their differs.	or 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.	1	

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3.3.24 Search Group Supervisor

	Search Grou	up Supervisor	
Detential Designatur			
Potential Designates	Field or Plant Personnel / Contract SME / First Responder or Local Authority		
Reports to	Security Branch Director		
Forms / Tools	201 Incident Briefing Form Public Information Scripts	n, Incident Action Plan, 214a Individual Activity L	og,
F	Role	Responsibilities	
-	ervisor coordinates and activities required during	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 and Public Property Group Supervisor			
Potential Designates	Field or Plant Personnel / Contract SME / First Responder or Local Authority		
Reports to	Security Branch I	Director	
Forms / Tools	201 Incident Brie Public Information	fing Form, Incident Action Plan, 214a Individual Activity L on Scripts	og,
Role		Responsibilities	
The Public Property and Evacuated Area Group Supervisor maintains security of controlled areas and all 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.		Coordinating and directing the activities of personnel within the Public Property and Evacuated Area Group.	
		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 The Pipeline. Hard copies are available in the ICP.			

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3.3.26 Emergency Operations Manager

	Emergency Operation	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, 2 215 Operational Planning Wo	14 Activity Log, 214a Individual Activity Lorksheet	g	
	Role	Responsibilities		
The Emergency Operation	_	Initiate the opening of the CEOC.		
overall coordination of ac The Emergency Operation activating the CEOC, ensu	ns Manager is responsible for	Acknowledge assigned objectives from the Incident Commander and establish any CEOC specific objectives.		
appropriate organization	al support to successfully	Develop the CEOC organizational structure		
support the incident and adjusting the organizational structure to meet the requirements of the incident with the resources available.		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 wit		Ensure internal and external communications are accurate.		
regulators, and with the public through the appropriate channels. This is often performed in conjunction with the Public Information Support Lead.		If necessary, ensure recovery plans are developed to return service levels to normal.		
Digital version	See <i>Role Guide</i> for fur is available at <i>The Pipeline</i> . Ha	ther details. ard copies are available in the CEOC.		

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3.3.27 Deputy Emergency Operations Manager

, ,	Populty Emergency Operations M	anagor	
	Deputy Emergency Operations M		C.,
Potential Designates	Emergency Management On-Call, Bus Operations Manager, Operations Man		Sr.
Reports to	Emergency Operations Manager	-0-	
ICP Counterpart	Incident Commander / Deputy Incider	nt Commander	
Forms / Tools	201 Incident Briefing Form, 214 Activi 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, the Operations Manager in the Manager needs to take a	ney may replace the Emergency ne event the Emergency Operations break from the running of the tin for the Emergency Operations	Acknowledge assigned objectives from the Incident Commander and establish any CEOC specific objectives.	
_	uld hold the same decision making	Develop the CEOC organizational structure.	
In the event the Deputy E	Approve the 201 Incident Briefing Form for the CEOC.		
Manager must conduct a Emergency Operations M	assumes command of the CEOC, the Emergency Operations Manager must conduct a shift change brief to the Deputy Emergency Operations Manager which should include the Monitor progress of the action plan against the objectives.		
Emergency Operations M	transfer of any specific Delegation of Authority held by the Emergency Operations Manager for the incident.		
The roles and responsibilities of the Deputy Emergency Operations Manager are therefore identical to those of the Emergency Operations Manager. However, if the Emergency Operations Manager deems it necessary, the Deputy		Ensure internal and external communications are accurate.	
	inager may be directed to support or	If necessary, ensure recovery plans are developed to return service levels to normal	
Digital version	See <i>Role Guide</i> for further det is available at <i>The Pipeline</i> . Hard copie		

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3.3.28 Liaison Support

3.3.20 Eldi3011 3upp	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	201 Incident Briefing Form, 214 Activity Log, 214a Individual Activity Log				
FOITIS / 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 S	Support Lead may assume some of the	external agencies present				
regulatory notification re	sponsibilities of the ICP.	in the CEOC.				
E 1 	alternative the control of the Parkers of Control of the Control o	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. Handle requests from other				
· -	thin the incident. These stakeholders	agencies to send Pembina				
will vary according to the	liaison personnel to their					
regulators, emergency se	command centres.					
jurisdictions, and private	Act as the conduit into the					
The stakeholders the Liais	son Support Lead deals with may change	CEOC for any Pembina				
	incident. If necessary, the Liaison	liaison personnel deployed	Ш			
_	handle requests from other	with other agencies.				
''	bina representatives present at their	Support and advise the				
command posts.	ionia representatives present at their	Liaison Officer at the ICP.	Ш			
communa posts.						
If requests for Pembina re	epresentation are received, it is the	Maintain a 214a Individual				
Emergency Operations M	anager who will sanction the	Maintain a 214a Individual Activity Log to record key				
deployment of Pembina L	iaison Representatives with the CEOC	events, decisions and				
Liaison Support Lead han	dling the communication between them	timings.				
and the CEOC.						
	Soo Dolo Cuida fan franklaan data'l					
Digital version	See <i>Role Guide</i> for further detail is available at <i>The Pipeline</i> . Hard copies a					
Digital version	is available at the ripeline. Hala copies a	inc available in the CLOC.				

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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		g
•	215 Operational Planning Worksheet		
	Role	Responsibilities	
The Public Information Support Lead is responsible for interfacing with the public, the media, and with other jurisdictions / organizations with incident related information needs in accordance with the Pembina Crisis Communications 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.		Advise the Emergency Operations Manager on all public information matters relating to the incident.	
		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 det is available at <i>The Pipeline</i> . Hard copie		

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3.3.30 Safety Support

		Safety Support		
Potential Designates	Safety Represen	itative		
Reports to	Emergency Ope	Emergency Operations Manager		
ICP Counterpart	Safety Officer	Safety Officer		
Forms / Tools		efing Form, 214 Activity Log, 214a Individual Activity Lo	g	
1011113 / 10013	215 Operational	Planning Worksheet		
Role		Responsibilities		
The Safety Support Lead	is responsible	Develop and maintain the CEOC Safety Plan		
for the ongoing assessme	ent and	Develop and manitam are electrical		
communication of hazard		Monitor, assess, and advise on the presence of hazardous conditions throughout the incident.		
The Safety Support Lead				
operations and advises the Operations Manager on r	matters relating	Monitor hazardous weather conditions that may impact personnel		
to the health and safety of	•	розорозомо		
dealing with the response Corporate Incident Support	·	Support the Safety Officer at the ICP in the maintenance of safe-work practices at the incident		
such, they interact regula	•	site.		
the Emergency Operation	_	Cooperate with the Operations Support Lead in the		
Operations Support Lead		development of strategies and tactics that meet		
If necessary the CEOC Saf	ety Support	Pembina safety procedures.		
Lead will work closely wit	th the ICP Safety			
Officer to advise, and if n	ecessary	Ensure proper risk management practices are applied throughout the incident		
develop, mitigation strategies to permit the conduct of tasks that fall outside the normal Pembina safety procedures.		applied throughout the incident		
		Recommend interventions as necessary to support		
		the physical and mental wellbeing of staff.		
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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3.3.31 Security Support

		Security Support		
Potential Designates	Secur	ity Representative		
Reports to	Emer	gency Operations Manager		
ICP Counterpart	Incide	Incident dependent		
Forms / Tools	201 Ir	ncident Briefing Form, 214 Activity Log,		
	214a	214a Individual Activity Log, 215 Operational Planning Worksheet		
Role		Responsibilities		
The principle role of the Security Support Lead is to advise the Emergency Operations Manager on all		Collect and disseminate security related information pertaining to the incident. This may include the production of intelligence type products from multiple sources with the intent of enhancing situational awareness within the CEOC		
matters pertaining to security of the incident. can manifest itself in ma		Activate and implement the Security Threat Response Plan, if required		
forms and may require	,	Support for mass fatality and missing persons investigations		
interaction with many of Corporate Incident Supp		Investigate incident source/cause		
Team members. In circumstances where		Coordinate with the Safety Support Function to ensure the safety and security of all response personnel		
physical deterrents or security equipment nee		Provide appropriate intelligence to external agencies conducting investigations		
be deployed, the Security Support Lead coordinates with the Operations Support Lead, the Incident Commander, or the Operations Section Chief at		Provide appropriate intelligence to the Corporate Incident Support Team to assist in developing evolving threats or hazards		
		Identify, document, collect and create a chain of custody for evidence pertaining to the incident		
the ICP.		Provide physical security deterrents at the CEOC and/or the ICP		
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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3.3.32 Operations Support

Operations Support Operations Support			
Potential Designates	·	ations or Engineering Manager	
Reports to	Emergency Operati		
ICP Counterpart	Operations Section	Operations Section Chief	
Forms / Tools 201 Incident Briefin		ng Form, 214 Activity Log, 214a Individual Activity Lo	g
	215 Operational Pla		
Role		Responsibilities	
The Operations Support L	•	Coordinate with on-scene responders to identify and meet needs related to mass care,	
for providing resource sup	-	emergency services, infrastructure, and	
coordination to activities		operations management	
reducing the immediate h	_	Clarify resource requirements, deploy available	
and property, reducing ha		resources requested by the ICP, and identify	
environment, establishing		gaps in resource availability	
control, and restoring nor	mal operations.	Provide the Planning Support Lead with updates	
When the CEOC is activat	ed, the Operations	from on-scene contacts.	
Support Lead coordinates	•	Coordinate with the Logistics Support Lead to	
personnel to identify and	deploy required	implement mutual aid or purchasing agreements	
resources so the ICP Oper		when internal resources cannot meet a	
can apply them to achieve incident		requirement.	
objectives.		Coordinate with internal and external	
\A/l	un un la tinna III	organizations to identify long-term incident	
When necessary for geog		impacts and recovery requirements. If	
widespread or complex in		necessary, coordinate with the Liaison Support	
establishing a local ICP is	·	Lead to identify long-term incident impacts and	
this function can also sup		recovery requirements for external	
activity directly from the		stakeholders.	
structure of the Operation 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 the		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	·	Coordinate with the Planning Support Lead to	
developed, care should be taken to ensure an effective span of control is maintained by the		develop incident-specific recovery plans.	
		Coordinate with the Safety Support Lead to	
Operations Support Lead.	•	integrate hazard mitigation into response and	
. , , , ,		recovery activities.	
	See Role Gu	ide for further details.	
Digital version	is available at <i>The Pi</i>	peline. Hard copies are available in the CEOC.	

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3.3.33 Logistics Support

Logistics Support				
Detential Designates				
Potential Designates				
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	tole	Responsibilities		
Operations Support Lead	hey work closely with the to source and procure	Order commodities, teams, and personnel required by Corporate Incident Support Team members.		
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.		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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3.3.34 Planning Support

Planning Support			
Potential Designates	Technical Services Team		
Reports to	Emergency Operations Manager		
ICP Counterpart	Planning Section Chief		
Forms / Tools	201 Incident Briefing Form,	214 Activity Log, 214a Individual Activity Lo	g
10111137 10013	215 Operational Planning W	orksheet	
F	Role	Responsibilities	
The Planning Support Lea	d is responsible for	Assist the Emergency Operations	
collecting, evaluating, and	d disseminating information	Manager in developing objectives and	
about the status of the in	cident and ongoing incident	ensuring objectives are achievable.	
activities.		Facilitate the CEOC planning process	
TI (!!!! ! !! 0500		and develop and distribute the 201	
They facilitate the CEOC p	= :	Incident Briefing Form.	
produce the 201 Incident	_	Anticipate long-term impacts and	
Incident Briefing Form inc		possible cascading effects, including	
-	cy Operations Manager and	potential resource requests and policy	Ш
provides essential inform		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	
operational period.		needed, in conjunction with Operations	Ш
The Planning Support Load is also responsible for		Support Lead and Technical Specialists.	
The Planning Support Lead is also responsible for collating damage assessment information, gathering		Collate data from initial and ongoing assessment of incident-related damage	
		and needs, conduct impact analyses,	
pertinent incident inform	ation, and analyzing data.	and inform plans and resource	
The intent is to provide si	tuational awareness to the	decisions with assessment results.	
CEOC to enable better de		Enable and support information sharing	
	al Information System (GIS)	with senior Pembina leadership.	
function may be allocated to the Planning Cuppert			
Section to assist in the de		Support incident modeling and	
awareness. If the nature of the incident requires it,		mapping requests. If necessary employ the use of a dedicated GIS Unit.	
Planning Support may be required to develop and			
disseminate contingency and long-term plans which		Meet information requirements to	
may include the developr	•	support decisions.	
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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3.3.35 Finance and Administration Support

Finance and Administration Support			
Potential Designates	Business Unit Controller		
Reports to	Emergency Operations Manager		
ICP Counterpart	P Counterpart Finance and Administration Section Chief		
Forms / Loois		fing Form, 214 Activity Log, 214a Individual Activity Lo Planning Worksheet	g
Role	213 Operationary	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		Support Lead.	
emergency under the con		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	
to other cloc sections.		Pembina procurement policies are followed.	
The Finance and Administration Support Lead works closely with personnel in the ICP Finance and Administration Section. The responsibilities of the CEOC Finance and Administration section closely align with those of the ICP Finance and Administration Section. In some circumstances and if requested by the Incident Commander, the CEOC Finance and Administration staff can assume some of the responsibilities of their ICP counterparts and perform functions on their behalf. If necessary, the Finance and Administration Support Lead will deal with compensation claims received because of the incident. In these cases, close liaison with the Legal Technical Specialist will be required		Execute contracts and procurements required for the response. Consider the mobilization of a Procurement Unit to assist with the legal implications of signing contracts.	
		Track working hours in accordance with normal Pembina Human Resources protocols and procedures. Develop procedures and protocols to deal with overtime issues resulting from the response.	
		Coordinate with the Safety Support Lead to track worker injuries and manage worker compensation claims. Consider the deployment of a Human Resources Technical Specialist.	
		Track compensations claims received from members of the public, government agencies and other organizations. Request a Legal Technical Specialist to support this function if required.	
		Support the Finance and Administration Chief in the ICP with the execution of their duties. If necessary, be prepared to assume some or all their responsibilities.	
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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3.3.36 Legal Support

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 Briefing Form, 214 Activity Log, 214a Individual Activity Log		
•	215 Operation	nal Planning Worksheet		
Role		Responsibilities		
The role of the Legal Support Technical		The Legal Support Technical Specialist should be prepa	red	
Specialist reports to the P	_	to advise on the following:		
Support Lead. The prima	-	Public Information Support		
advise the Emergency Op		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 eleme	ents of the	activities		
Corporate Incident Support Team.		Safety and Operations Support		
Normally a Tackwical Coasialist wards		Consequences of actions undertaken during the		
Normally, a Technical Specialist works		response		
under the Planning Suppo		Planning Support		
However, depending on t		Insurance documentation requirements.	Щ	
the incident, this may not		Protection of privileged and confidential information		
appropriate. The Emergency Operations Manager is responsible for creating the CEOC organization and will determine the best functional area for you to operate in.		Logistics Support		
		Corporate standards for contracts and procurement		
		Finance and Administration Support		
		Compensation claims received because of the		
		incident	Ш	
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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3.3.37 Human 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		
·	201 Incident Briefing Form, 214 Activity Log, 214a Individual Activity Log		
Forms / Tools	215 Operatio	nal Planning Worksheet	
Role		Responsibilities	
The role of the Human Re	sources	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	vica tha	The release of sensitive information.	
Emergency Operations M		The release of factually accurate information.	
necessary, the Incident Co	_	Data protection.	
on matters pertaining to		Liaison Support	
Resources during a response.		Liaison with police during Next of Kin notifications.	
The exact duties will vary according to the incident but may require interaction with all elements of the Corporate Incident Support Team.		Coordination with police and OH&S with information	
		regarding injuries and fatalities.	
		Safety and Operations Support	
		Health and wellness support to responders.	
		Provision of Critical Incident Stress Management	
Normally, a Technical Specialist works		resources.	
under the Planning Suppo	ort Lead.	Planning Support	
However, depending on t	he nature of	Provision of training standards to allow resource	
the incident, this may not	be	allocation.	
appropriate. The Emerge	ency	Logistics Support	
Operations Manager is responsible for creating the CEOC organization and will determine the best functional		Provision of people to meet the needs of the	
		response. Finance and Administration Support	
		Payroll and time tracking.	
area for you to operate in	١.	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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3.3.38 Executive

Executive			
Potential Designates	Incident Dependent		
Forms / Tools	Business	Business 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	9	Delegating authority to the Emergency Operations	İ
operations. Not only show	uld	Manager act on behalf of Pembina Corporation. If	İ
executives be developing	the	necessary (and permitted) the Emergency Operations	
plans and strategies for th		Manager can further delegate authority to the Incident	
	•	Commander.	
term recovery, but also ensuring the company can function during an incident as well.		Providing direction, policy, and guidance to the Emergency Operations Manager during a response. This is particularly relevant with respect to political, economic, and	
Where appropriate, they	can task	reputational issues pertaining to the incident	
the CEOC to undertake the tactical level activities necessary required to deliver Business Continuity throughout the incident duration.		Supporting and enabling a multi-agency approach to manage the incident.	
		Identifying and enabling the strategic plans required to enable the long-term recovery from an incident.	
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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3.4 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 (ICP)	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.
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 centers 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.	 Registers evacuees Addresses immediate needs for food, housing and information Records destination details of evacuees leaving the area Addresses immediate compensation claims (short term claims) Provides information to Public Safety Section Chief on the status of evacuation activities 	Determined by incident location. Refer to Asset Specific Plan(s)
Municipal (MEOC) Regional (REOC) Provincial (POC)	Focal point for Provincial and Municipal Government local response.	 MEOC mobilized at a Level 2 REOC Mobilized at a Level 3 POC Mobilized at a Level 3 May assist with public safety Activates and assists with Government fan-out communication Monitors activities of Pembina Provides technical support and regulatory direction to the Company Sends representative to the Incident Command Post 	 Regional Provincial Energy Board Office Local County Disaster Services Office City Offices Provincial Emergency Management Office
US State (SEOC)	Focal point for State-level Government response.	SEOC may be established as the main focal point for State response activities and to assist local jurisdictions	Determined by incident location.
US County (CEOC)	Focal point for County/Municipal-level Government response	CEOC will be established for a county response	Determined by incident location.
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 (SPCC)

Details regarding the Sherwood Park Control Centre have been removed from the publicly posted version of the Corporate Emergency Management Plan for the protection of private or confidential information.

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*.

For specific information regarding Operator Qualification (OQ) (U.S jurisdictions only), refer to Pembina's OQ 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 center, 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

Refer to Area or Site-specific Plan(s), as applicable, for established EPZ information.

4.1.1 Emergency Planning Zone (EPZ)

An 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 HVP Pipelines (Canada)

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 within other provinces.

4.1.1.2 EPZs for 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_2S concentration of 0.1 mol/kmol (100 ppm / 0.01 % / 0.0001 mole fraction) or greater.

4.1.1.3 EPZs for 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.

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4.1.1.4 EPZs for Hazardous Liquids and Gas Pipelines (USA)

At a minimum, EPZs for pipelines within the USA transporting hazardous liquids and/or gas will be calculated using the Alberta regulations for HVP and H₂S pipelines as listed above.

4.1.1.5 EPZs for Facilities

For facilities with HVP products, the EPZ of the facility is equal to the largest HVP pipeline EPZ entering or leaving the facility.

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 radius from the boundary of the facility.

4.1.2 Initial Isolation Zone (IIZ) (Alberta and USA 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 (PAZ) (Alberta and USA 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 (HPZ) (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 (HRZ) (BC Only)

An HRZ is the area affected by an incident / emergency.

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4.1.6 High Consequence Areas (HCAs)

Each **High Consequence Area (HCA)** will have a direct impact on response activities in the event of an unplanned release.

Refer to <u>Section 7.0 Hazards / Emergency Type</u> in this Plan for further details. Additional information is available in the *Corporate Spill Contingency Manual*.

4.1.6.1 Canada Jurisdiction(s)

HCAs are areas and/or receptors 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 or return the area to its predisturbance state.

HCAs include the following:

- High population areas;
- Other populated areas;
- Sensitive areas (including, but not limited to: drinking water supplies, hospitals, ecological resources, parks, commercial fishing, recreation waters, commercially navigable waterways, dams and reservoirs, heritage features, threatened or endangered species, waterbodies, watercourses, and wetlands).

4.1.6.2 U.S. Jurisdiction(s)

An HCA is a pre-identified area where a release could have the most significant adverse impacts to populated areas, areas unusually sensitive to environmental damage, and commercially navigable waterways.

HCAs for gas transmission pipelines focus solely on populated areas (urbanized areas and unincorporated communities). These HCAs are potential impact circles that contain 20 or more structures intended for human occupancy or contain an identified site.

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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4.1.8 Spill Response Zones

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

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

Refer to the *Corporate Spill Contingency Manual* for further information.

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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:

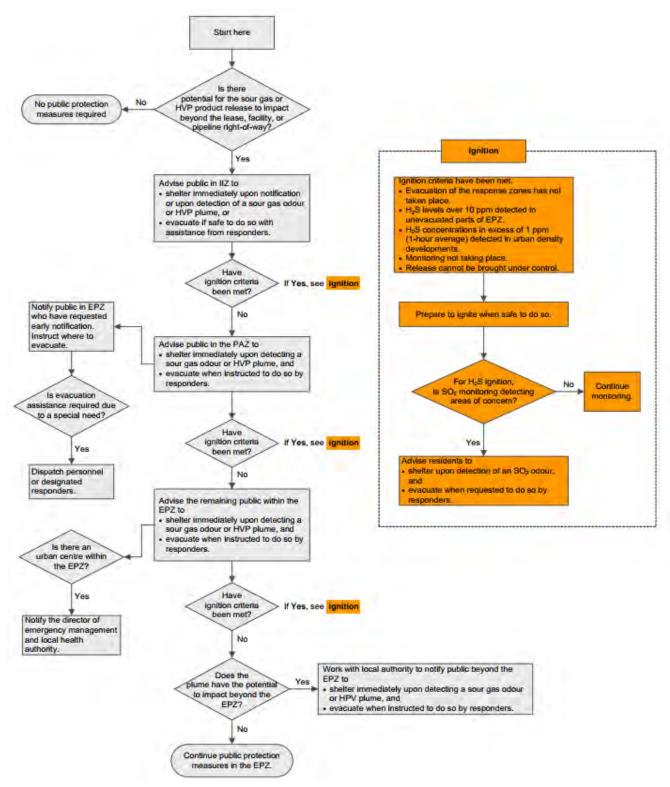
- Area Isolation setting up roadblocks and barriers to prevent entry into a hazard area;
- Shelter-in-Place requesting members of the public to shelter indoors until the hazard ends or until it is safe to evacuate;
- Evacuation requesting members of the public to evacuate the area until safe to return; 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

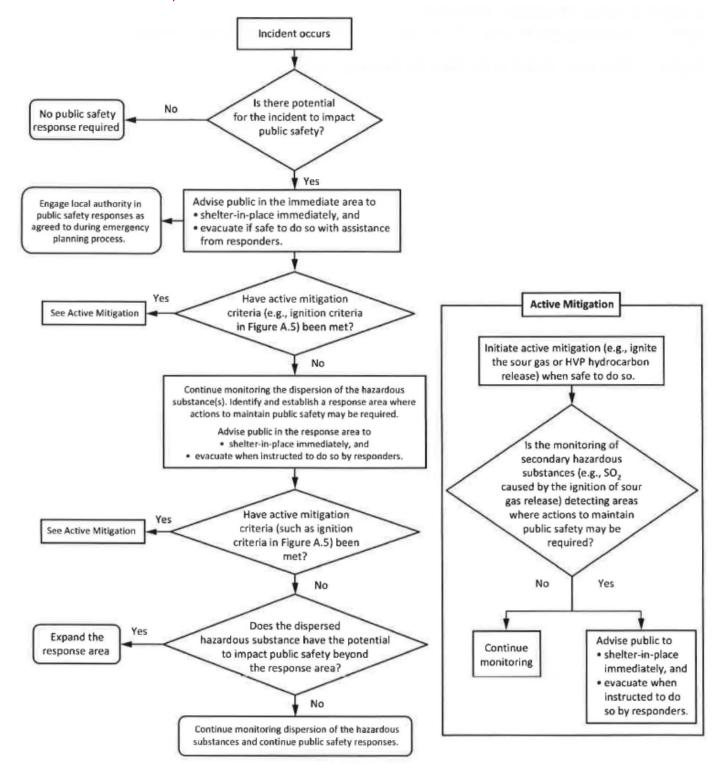


Source: AER Directive 71

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4.2.2 Public Safety Decision Process – Other Jurisdictions



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

Revision Date: May 2020

Version: 2.1

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/state environment 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.

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

For areas where there is a high volume of recreational activity, roadblocks may also need to be set up to block trailheads and waterways

4.4.1 Major Highways / Traffic Control / Railways / Airspace

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

The public must be protected by restricting any travel through affected airspace. For incidents in Canada, NAV Canada can be contacted through the regulating authority to assist with the issue of a Notice to Airmen (NOTAM).

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 H₂S pipelines and associated facilities, as well as E2 regulated assets.

In the event of an incident related to an HVP or H₂S 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/state 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/state 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
 Type and status of the incident Location and proximity of the incident to people in the vicinity Public protection measures to follow, evacuation instructions, and any other emergency response measures to consider Actions being taken to respond to the situation, including anticipated time period Contacts for additional information 	 Description of the products involved and their short term and long term effects Effects the incident may have on people in the vicinity Areas impacted by the incident Action the affected public should take if they experience adverse effects
 To the general public – during Type and status of the incident Location of the incident Areas impacted by the incident Description of the products involved Contacts for additional information Actions being taken to respond to the situation, including anticipated time period 	(Source: Adapted from AER Directive 71, Appendix 8):

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Shelter-in-Place 4.6

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.

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 H₂S 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.

Conoral Sholter in Place Instructions

4.5	5.3 General Shelter-in-Place Instructions				
Αdν	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 outs					
	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

AGE OF THE TAXABLE PROPERTY.
After the hazardous substance has passed through the area, emergency response personnel will contact
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 RCMP/Police/applicable State Authority 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 **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 **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

H ₂ S 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 ₂ S must be notified.			
Above 10 ppm (3 minute average)	Local conditions must be assessed, and all persons must be advised to evacuate and/or shelter.			
Note: if monitored levels over the 3 minute interval are declining (i.e., three readings show a decline from 15				

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 ₂ 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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4.7.2.2 Sour Operations – BC Evacuation Requirements

H ₂ S Concentration	Requirement
1 to 9 ppm	Individuals who requested notification so that they can voluntarily evacuate before any exposure to H_2S 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 ₂ Concentrations	Requirement
1 to 4 ppm	Individuals who requested notification so that they can voluntarily evacuate before any exposure to H_2S 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. It is established at a safe distance from the release source and may be established in conjunction with the local authority. Depending on the duration of the emergency, arrangements for lodging and food will be made for the evacuees, as required.

- The Reception Centre Group Supervisor is responsible for activating the reception centre, and meeting and registering evacuees.
- 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 <u>Appendix – Forms</u> 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, NEB, OGC, PHMSA etc.), local authority, health authority and provincial/state 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.

AER senior staff may make the decision to ignite a release if the licensee does not agree to ignite the release or is not prepared to take the necessary steps.

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-
Etha	ne	3		12.4		-A-		
Metl	hane	5		15			-A-	
Pent	ane	1.5		ne 1.5 7.8		1500		
Prop	ane	2.1		10.1			2100	
	Legend							
Α	Ası	phyxiant IDLH Immediate of		Immediate dar	nger to life and health	U	Date not	available

The Alberta OH&S Occupational Limit 20% of the LEL. This is consistent with the United States Department of Labor's Occupational Safety and Health Administration (OSHA).

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 – H₂S 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.

H₂S Ignition Criteria - Alberta 4.8.2.1

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 H₂S 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.

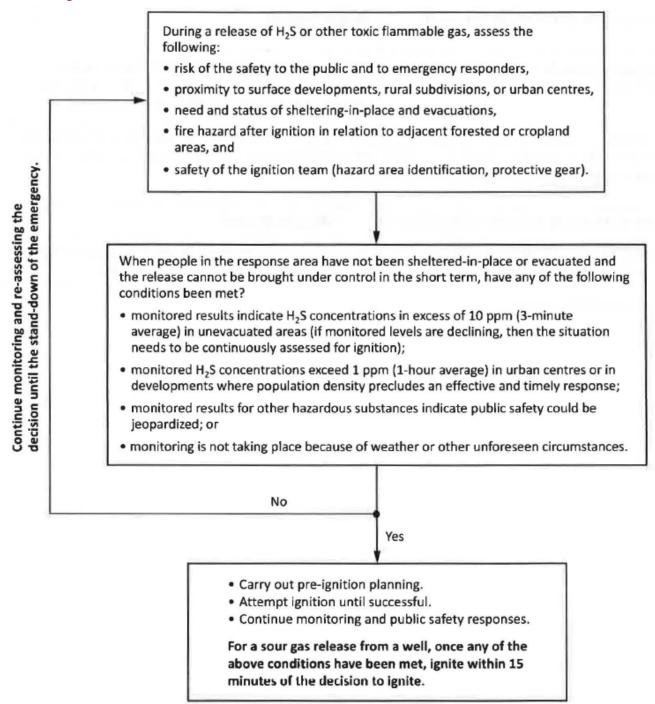
Decision to Ignite

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.			
2	Evaluate the terrain for a protected ignition position. When igniting a vapor cloud or large gas 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.			
4	A two-person ignition team equipped with and wearing breathing equipment, heat protective 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.			
5	The attachment of safety lines to ignition team members will be at the discretion of the Response Branch Director who will evaluate terrain, effluent characteristics and routes in and out of the ignition area.			
6	Approach the ignition area to approximately 100 metres from plume; monitor the lower explosive limit; if a safe atmospheric environment exists, ignite the effluent from the upwind side.			
7	Using a flare shotgun or pistol, aim the flare to a point above the main plume where air and gas 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.			
8	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 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.			
9	The Response Branch Director will advise the Incident Commander and Emergency Operations 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 (H₂S)

·	Acute Health Effects of H2S – Alberta
Concentration H₂S 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 ₂ 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 ₂ 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	* 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 (SO₂)

	Acute Health Effects of SO ₂ – Alberta							
Concentration SO2 in Air (ppm)	Description of Potential Health Effects							
0.1	Transient bronchoconstriction ¹ in sensitive exercising asthmatic individuals that ceases when exposure ceases. ²							
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 CANADA – 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, supported by the Incident Management Team, and the AER will determine the 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.

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5.1.3 Incident Classification Matrix – Alberta Energy Regulator (AER)

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

Table	Γable 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			

Table 4. Incident Classification								
Responses	Alert	Level-1 emergency	Level-2 emergency	Level-3 emergency				
Communications								
Internal Discretionary, depending on licensee policy.		Notification of off-site management.	Notification of off-site management.	Notification of off-site management.				
External public	Courtesy, at licensee discretion.	Mandatory for individuals who have requested notification within the EPZ.	Planned and instructive in accordance with the specific Plan(s).	Planned and instructive in accordance with the specific Plan(s).				
Media	Reactive, as required.	Reactive, as required.	Proactive media management to local or regional interest.	Proactive media management to national interest.				
Reactive as required. Government Notify AER if public or media is contacted.		Notify AER Field Centre. Call local authority and AHS if public or media is contacted.	Notify AER Field Centre, local authority, and AHS.	Notify AER Field Centre, local authority, and AHS.				
Actions								
On site, as required by licensee.		On site, as required by licensee. Initial response undertaken in accordance with the site-specific or corporate-level Plan.	Predetermined public safety actions are under way. Corporate management team alerted and may be appropriately engaged to support on-scene responders.	Full implementation of incident management system.				
On site, as required by licensee.		On site, as required by licensee.	Potential for multi-agency (operator, municipal, provincial, or federal) response.	Immediate multi-agency (operator, municipal, provincial, or federal) response.				
Resources								
I No additional I		Establish what resources would be required.	Limited supplemental resources or personnel required.	Significant incremental resources required.				
External	None.	Begin to establish resources that may be required.	Possible assistance from government agencies and external support services, as required.	Assistance from government agencies and external support services, as required.				

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5.1.4 External Contact Matrix – Alberta

5.1.4 External Contact Matrix – Alberta	<u>Initia</u>	l Respor	nder <u>s</u>		Le	ad Age	nci <u>es</u>				S	up <u>por</u>	ting / C	Coordin	ating Ag	en <u>cies</u>	and O	ther <u>G</u> c	over <u>nm</u>	ent <u>Cor</u>	nta <u>cts</u>				Other
NOTES FOR RESPONDERS This matrix provides guidance on conducting	L	L	L	Р	Р	L	Р	F	F	Р	Р	Р	P	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 (Formerly NEB – National Energy Board)	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 suppor	t in de	termin	ing no	otifica	tion r	equire	ment	Respo s to Sup		•	ordinat	ing a	nd Otl	ner Ag	gencies.	. Cons	sider d	lelega	iting n	otifica	ation to	asks t	o rele	vant S	MEs.
Product Release – Liquids	0	0	0	~	~	✓	0	~	✓	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Product Release – Gas	0	0	0	✓	✓	✓	0	~	✓	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	~	~	~	~	0	~	~	0	0	0	~	0	0		0		0	~	~	0	0	0	0
Fire / Explosion / BLEVE	0	~	0	~	~	~	>	✓	✓	0	~	0	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						0								
Security Related Incident	0	0	✓	0	0	0	0	0	0		0			0	0										
Radiation Related Incident	0	~	~	✓	0	0	>	0	0	0	0			0	0					0					
Crosses international / interprovincial boundary	0	0	0	0	0	0		~	~					0											
Involves an E2 regulated substance	Revie	w requ	ireme	nts in t	he EC	CC sect	ion in	the CAN	ADA –	Federal	Agencie	s tab.	ECCC	may b	e notifie	d by t	he AEI	₹.							
Impacts rail	Notify rail company involved – details available in the Area-/Asset-specific plan(s)																								
Involves First Nations and Indigenous groups	Cont	act thro	ugh Pe	embina	a Crisis	Comn	nunica	tion Call-	down	to Abori	ginal an	ıd Cor	nmuni	ty Rela	itions										
Impacts airspace	Requ	est a No	otice t	o Airm	an (NC	OTAM)	as req	uired – c	an be	requeste	ed on Al	ER not	tificatio	on call	, see Lea	ad Age	ncies 1	ab for	details	5.					

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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)	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. • Alert other applicable government and emergency agencies such as Alberta Environment & Parks, Agriculture & Forestry, Health Services, Alberta Emergency Management Agency, and Employment & Immigration - Occupational Health & Safety. • Provide representation at the incident site or ICP. • In conjunction with Pembina, estimate the product release rate. • If required, can issue a Fire Hazard (FH) order, which prevents anyone from entering the hazardous area. This allows legal road and access closure. • If required, can request a Notice to Airmen (NOTAM) restricting passage of aircraft over a designated hazardous area • If required, can establish an EOC at the local AER Field Centre until Pembina or the local authority establishes a Regional EOC. • Ensure Pembina is advising the public of potential danger and conducting evacuation or sheltering in place. • If required, ensures Pembina establishes communications links with, and/or provide representation at, the government EOC. • Carry out investigations. • Notify all participants when the event has concluded and there is no longer any hazard to the public. 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.	 What must be reported: Any substance release that may cause, is causing, or has caused an adverse effect* Any unrefined product release of more than 2 m3 on lease Unrefined product release off lease Any substance release into a waterbody Any pipeline release or pipeline break (including during pressure testing) Pipeline hits Any uncontrolled gas release of more than 30 000 m3 Any well flowing uncontrolled Any fire caused by a flare or incinerator Any fire causing a loss of more than 2 m3 of oil or 30 000 m3 of gas, or causing damage to a wellhead Any fire that occurs on an oilsands site that results in the deployment of major fire-fighting equipment How to report 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. Calls can be made to the 24-Hour Energy & Environmental Response Line at 1-800-222-6514. This is a one call number for AER and Alberta Environment & Parks (AEP) Minimum information to include The location and time of the release A description of the circumstances leading up to the release The type and quantity of the substance released Details of any actions taken and proposed to be taken at the release site to contain, recover, and remediate the release A description of the release location / immediate surrounding area The AER authorizations number(s) if available When preparing the information for the verbal report, it's recommended you use the AER First Call Form (Corporate ERP Forms section) – 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 	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

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	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)	Spills / Releases / Fish & Wildlife 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. • Management of all off-site air/water quality monitoring activities – reports to the Response Branch Director. • Determine the area(s) of risk from the gas release; ensure that adequate equipment is available for monitoring. • Monitor discharges and mitigate impact of release related liquids entering watercourses. • Provide representatives to the incident site or the REOC on a 24-hour basis as required. • Monitor impacts on the environment and impacted species and provide direction on recovery efforts.	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)	 Provides technical expertise on potential health impacts to the public, linkages to health resources and considers provincial health system impacts. AHS will assess the potential for and implications of human health issues and coordinate the provision of information and support to and from AHS. Provide health and medical technical expertise as requested and as appropriate. 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) 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. 	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							

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	Alberta Agencies									
Agency	Roles and Responsibilities During Emergencies What they do / how they can help Immediate Notice / Verbal Report									
Alberta Emergency Management Agency (AEMA)	 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. 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. Coordinate notification of affected government departments, including affected municipalities and Alberta Health Services. Note: The AER or AEP will advise, as required. Coordinate requests for provincial/federal resources. Responsible to assist in the coordination of evacuation and reception plans within municipalities. Provide ongoing situation reports to appropriate provincial officials. Activates a POC if required. 	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)	 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. Ensure that the appropriate employers provide equipment and personnel required on site to monitor worksite hazards. Provide a representative to the incident site and the REOC on a 24-hour basis, as required. 	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.								

Roles and Responsibilities During Emergencies What they do / How they can help Berta Environmental and Dangerous Goods Emergencies (EDGE)* is a 24-hour emergency response centre or reporting releases, or anticipated releases of dangerous goods during any aspect of transport. *Formerly Alberta Transportation Coordination and Information Centre (CIC).	Immediate Notice / Verbal Report AT-EDGE is the first call for all transportation related spills/incidents. If spill is contained on-site, Alberta	Additional Supports
or reporting releases, or anticipated releases of dangerous goods during any aspect of transport.	AT-EDGE is the first call for all transportation related spills/incidents. If spill is contained on-site. Alberta	
Manages TDG emergency calls and assesses the severity of dangerous goods incidents. Liaises with AER/AEP and handles inter-departmental communication as needed during energy resources industry emergencies. Provide response support if dangerous goods are released. 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.	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 RCMP 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.
rovides intelligence and threat risk assessments in relation to human induced intentional threats/hazards 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
PE (formerly Alberta Public Affairs Bureau) is a cross-governmental department that provides ommunications, public relations and marketing services to government ministries. PE 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. Iberta Boilers Safety Authority (ABSA) afety regulator for pressure vessels and equipment in Alberta.	Notify as indicated by the External Contact Matrix - Alberta Check with appropriate Pembina SME for further details on reporting requirements 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	
PE	industry emergencies. Provide response support if dangerous goods are released. 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. Provides intelligence and threat risk assessments in relation to human induced intentional threats/hazards 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. E (formerly Alberta Public Affairs Bureau) is a cross-governmental department that provides munications, public relations and marketing services to government ministries. E 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.	Industry emergencies. Provide response support if dangerous goods are released. 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. wides intelligence and threat risk assessments in relation to human induced intentional threats/hazards 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. El (formerly Alberta Public Affairs Bureau) is a cross-governmental department that provides munications, public relations and marketing services to government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-governmental department that provides munications, public relations and marketing services to government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government ministries. El (formerly Alberta Public Affairs Bureau) is a cross-government that provides maintained by the External Contact Matrix - Alberta Check with appropriate Pembina SME for further details on reporting requirements Check with appropriate Pembina SME for further details on reporting requirements Check with app

		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.	 Immediately report fatalities and serious injuries to the OHS Contact Centre 1-866-415-8690 Employer must report to WCB within 72 hours of being notified of an injury/illness that results in or will likely result in: Lost time or the need to temporarily or permanently modify work beyond the date of accident Death or permanent disability (amputation, hearing loss, etc.) A disabling or potentially disabling condition caused by occupational exposure or activity (poisoning, infection, respiratory disease, dermatitis, etc.) The need for medical treatment beyond first aid (assessment by a physician or chiropractor, physiotherapy, etc.) Medical aid expenses (dental treatment, eyeglass repair/replacement, prescription medications, etc.) Determines whether the injury or illness is caused by work. Responds to all client inquiries forwarded by the Minister and all other elected officials. 	
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 CANADA – 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 Liaison Officer, supported by the Incident Management Team, and the OGC will determine the 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.

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5.2.3 Incident Classification Matrix – BC Oil and Gas Commission (OGC)

Instructions: Start at the top and continue down until you check off any one box in both consequence and probability to determine the incident classification. This matrix is required as an attachment upon submission of an incident through the Online Minor Incident Reporting System

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

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

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

TABLE 3. INCIDENT RISK SCORE AND CLASSIFICATION CONSEQUENCE + PROBABILITY = RISK SCORE (this must be completed)									
RISK SCORE	ASSESSMENT RESULT								
Minor (1-2)	Notification Only; permit holder must notify the Commission online within 24 hours using the Form A: Minor Incident Notification Form. In addition to Form A, spills must also be reported to EMBC.								
Moderate (3-4)	Level-1 Emergency; immediate notification (call EMBC)								
Major (5-6)	Level-2 Emergency; immediate notification (call EMBC)								
Serious (7-8)	Level-3 Emergency; immediate notification (call EMBC)								

					PROBABILITY		74
			4	3	2	1	0
		GC Incident Classification Matrix	Uncontrolled, with control unlikely in near term	Escalation possible; under or imminent control	Escalation unlikely; controlled or likely imminent control	Escalation highly unlikely; controlled or imminent control	Will not escalate; no hazard; no monitoring required
	4	 □ Major on-site equipment or infrastructure loss Major act of violence, sabotage, or terrorism which impacts permit holder assets □ Reportable liquid spill beyond site, uncontained and affecting environment □ Gas release beyond site affecting public safety 	Level 3	Level 3	Level 2	Level 2	Level 1
CONSEQUENCE	3	 □ Threats of violence, sabotage, or terrorism □ Reportable liquid spill or gas release beyond site, potentially affecting public safety, environment, or property □ HAZMAT worker exposure exceeding allowable □ Major on-site equipment failure 	Level 3	Level 2	Level 2	Level 1	Level 1
CONSEC	2	 □ Major on-site equipment damage □ A security breach that has potential to impact people, property or the environment □ Reportable liquid spill or gas release potentially or beyond site, not affecting public safety, environment, or property 	Level 2	Level 2	Level 1	Level 1	Minor Notification Form
	1	 ☐ Moderate on-site equipment damage ☐ A security breach that impacts oil and gas assets ☐ Reportable liquid spill or gas release on location ☐ ** Occurrence of magnitude 4.0 or greater induced earthquake within 3 km of oil and gas operations or any earthquake which is felt on surface within a 3 km radius of oil and gas operations 	Level 2	Level 1	Level 1	Minor Notification Form	Minor Notification Form
	0	□ No consequential impacts	Level 1	Level 1	Minor Notification Form	Minor Notification Form	No notification required

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

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SPILL REPORTING CRITERIA

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

Please refer to the BC Environmental Management Act; Spill Reporting Regulations Schedule "Reporting Levels for Certain Substances" for determining reportable spillage amounts of other substances:

OTHER REPORTABLE INCIDENTS

The Commission's Incident Risk Classification Matrix is designed to assist permit holders in determining which incidents must be reported. However, some incidents, which do occur, may not meet the criteria outlined in the Incident 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:
 - o pit gain of 3 m3 or greater
 - o casing pressure 85% of MA
 - 50% out of hole when kicked
 - o well taking fluid (LC)
 - o associated spill
 - o 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
- Security related issues which are relatively minor; such information may be required for tracking and monitoring purposes only

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5.2.4 External Contact Matrix – British Columbia

.2.4 External Contact Matrix – British Co		al Respo	adors -			Lead Ag	encies				_C	norting	/ Coord	inatina	Agoncie	s and Otl	or Co	ornman	t Conto	ctc		Other
NOTES FOR RESPONDERS	Initia	ai Kespo	iaers	P	Р	P P	l	Р	F	F	Sup P	porting	/ Coord	inating A	Agencie	s and Oti	ner Gov	rernmen F	F Conta	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	EMBC – Emergency Management BC	BCOGC – BC Oil and Gas Commission	MOE –BC Ministry of Environment and Climate Change Strategy	Local Authorities	WorkSafe BC	CER – Canadian Energy Regulator (Formerly NEB – National Energy Board)	TSB – Transportation Safety Board	MFLNRO – BC Ministry of Forests/Lands	BC Ministry of Transportation	HEMBC – Health Emergency Management BC	BC Ministry of Agriculture	Technical Safety BC	Environment and Client Change Canada (ECCC)	Transport Canada CANUTEC	ERAC – Emergency Response Assistance Canada	DFO – Department of Fisheries / Oceans	ISC / RO / FHIHB	Indian Oil and Gas Canada	WCSS – Oil Spill Cooperative
							•	nder Ti	•		_											
Engage Technical Specialists / SMEs for suppo	ort in de	termini	ng notif	fication	require	ements t	o Supp	orting	/ Coordi	nating	and Ot	her Ag	encies.	Conside	er dele	gating no	otificat	ion task	s to re	levant	SMEs.	
Product Release – Liquids	0	0	0	*	*	✓	~	~	✓	~	0	0	0	0	0	0	0	0	0	0	0	0
Product Release – Gas	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	~	✓	✓	~	✓	~	~	✓	0	0	0	0	0	0	✓	✓	0	0	0	0
Fire / Explosion / BLEVE	0	~	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	0	0												
Radiation Related Incident	0	✓	✓	✓	*		0	✓	0	0			0				0	0				
Tradiation related meldent	0	0	0	0	0	0	0		✓	~		0										
Crosses international / interprovincial boundary	0				5000	oction i	the C	ANADA	– Feder	al Ager	ncies tal	o.										
		w requi	rement	ts in the	ECCC S	ection ii	1 1110 0															
Crosses international / interprovincial boundary	Revie								ea-/Asse	t-speci	fic plan	(s)										
Crosses international / interprovincial boundary Involves an E2 regulated substance	Revie	y rail co	mpany	involve	d – deta	ails avail	able in	the Ar	ea-/Asse vn to Abo	•	•		ity Rela	tions								

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5.2.5 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 *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 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)	 EMBC acts as a 24-hour incident reporting line and initiates a government notification fan-out to the OGC and/or MOE, as required. EMBC will contact other government agencies only if directly involved. 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). Provide representatives to help coordinate provincial response as required. 	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 site A description of the spill site and the surrounding area 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. Request NOTAM order from NAV Canada 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.	 MINOR INCIDENT (Form A) 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. If the minor incident involves a spill, EMBC must also be called at 1-800-663-3456 for the Ministry of Environment (MOE) to be notified. LEVEL 1, 2, OR 3 EMERGENCY (Form C) 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 24hr emergency # 250-794-5200 EMBC 24hr emergency # 1-800-663-3456 OIL AND GAS ROAD CLOSURES 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. 	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)	 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. A Ministry representative – Environmental Emergency Response Officer (EERO) – will provide regulatory oversight and monitor the situation to ensure appropriate response actions. Monitors discharges to the land, atmosphere and all water bodies. 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. May assist to ensure other required agencies and affected stakeholders are contacted. May provide assistance with hazardous waste management. May conduct sampling for monitoring and enforcement purposes 	If a spill occurs, or is at imminent risk of occurring, responsible persons (spillers) must ensure that it is immediately reported to the Provincial Emergency Program (PEP)/ Emergency Management British Columbia (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.	Report immediately at the first Contact information available in the a		
WorkSafe BC	 Supports injured workers and promotes workplace health and safety across B.C. 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. May provide a representative to the emergency operations centre as required. 	 You must immediately notify WorkSafe BC of any incident that: resulted in serious injury to or the death of a worker, involved a major structural failure or collapse of a building, bridge, tower, crane, hoist, temporary construction support system or excavation, involved the major release of a hazardous substance, involved a fire or explosion that had a potential for causing serious injury to a worker, or was an incident required by regulation to be reported. 	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 requi	rements.	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	 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. Authorizes the closure of provincial transportation routes, including highways and inland ferries, where the safety of the public is at risk. Assists in public notification through the DriveBC website, as well as posting advisories on overhead message boards along designated routes. 	Check with appropriate Pembina SME for further details on reporting requirements.		
HEMBC	 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 Safety Standards Act 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 recovery		

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5.3 CANADA – 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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	Local State	I Danie				Load A	gencies				-C		/ Co and:	- tio - t	A	h a ii C		. Comb	-1-		Other
NOTES FOR RESPONDERS	Initia	l Respo	iders	Р	Р	Lead A	L	Р	F	F	Sup	pporting P	/ Coordina	ating Agenci	ies and Ot	ther Gov	vernmer	nt Conta	F	F	Other 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	Ambulance Services	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 (Formerly NEB – National Energy Board)	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
INCIDENT TYPE	₹	L N	Ğ	2	2		Respoi			ř	Š	>	2		<u> </u>	Ë	± 3	٥	SI	2	>
Engage Technical Specialists / SMEs for suppor	t in det	erminin	g notif	fication	require		-		•	nating a	and Ot	her Age	encies. Coi	nsider dele	gating n	otificat	ion task	s to re	levant	SMFs	
Product Release – Liquids	0							Ŭ	•					iisiaci acie	Buting in			البياراة		JIVIL3.	
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Product Release – Gas		0	0	*	~	~	✓	✓	*	*	0	0	0	isiaci acie	0	0	0	0	0	0	
Product Release – Gas Transportation incident involving product release (Roads/Rail/Pipeline/Air/Marine)	0	0	•	Y	*	*	✓	*	* * *	* * *	0 0	0	0	isiaci acie	0	0 0	• •	0 0	0	0 0	
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Product Release – Gas Transportation incident involving product release (Roads/Rail/Pipeline/Air/Marine) Fire / Explosion / BLEVE Medical Emergency – serious injury or fatality Motor Vehicle Accident – employee Security Related Incident Radiation Related Incident Crosses international / interprovincial boundary Involves an E2 regulated substance	o o o o Revie	o o o o o w requi	o v v o v v v v v v v v v v v v v v v v	v v v v v v v v v v v v v v v v v v v	O O O O O O O O O O O O O O O O O O O	o o section is ails avai	o on the C	V V O O CANADA	✓ ✓ ✓ O O A – Feder	✓ ✓ ✓ ✓ ✓ al Agen	o o v cies tal	o o o o o o o o o o o o o o o o o o o	0		0	• • • • • • • • • • • • • • • • • • •	0 0	0 0	0 0	0 0	

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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

ncy		Roles	and Responsibilities [Ouring emer	gencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
	 NOTIFY MER ACTIVATE EF REMEDIATE SUBMIT deta 	in accordance with the RP where required and or, where necessary, re	primary regulatory at e requirements of this E take immediate steps to eclaim the affected area eports in the Integrated ting Substance	Directive; see o resolve the o to the satisf	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:	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	 Provide representative the site of the incident, as required. Provide consultation regarding 	
	General Field		All	All	Description Any fires resulting from the operation of a licensed well, facility, pipeline or flowline.	 Contact damage to a flowline or 	required information and	emergency
	Operations	Fire Release or Spill	Naturally Occurring Radioactive Materials (NORMS) Oil by-products or oily	All	Any volume released that is not approved under GL97-02 ¹	pipeline that does not result in a break or leak; or Any on-lease release of oil, condensate, emulsion or salt	documentation available. 2. Log in to IRIS and complete the initial incident report process.	response lev decisions, activities. • Directly alert
		Blow-out	produced sands	All	Any uncentralled release of gases or fluid from a well	water that is less than 10.0 m3	Detailed Incident Report	other provin
		Kicks	All Any uncontrolled release of gases or fluid from a well All Any controlled diversion of gases or fluid from the well to a flare tank. On-lease re	On-lease releases or contact damage	Upon successful submission of the	agencies an		
	Pipeline or Flowline	Contact Damage			,	that are exempt from immediate	initial report a countdown	responders
	Operation	Break	All	All	Any break to a flowline or pipeline	telephone notification still require	calendar is initiated in IRIS – you	•
	Орегиноп	Leak, malfunction of any equipment or a worker error resulting in the escape or release of a substance	Oil, salt water, condensate or other product Gas Containing H2S Natural Gas	Off Lease On Lease All All	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	Determine the Ministry's Field Office responsible for the area where the incident has occurred; you will be prompted for this information when	must complete the subsequent detailed incident report within 90 days to avoid penalty: 1. Refer to the <i>Directive</i> PNG014 to ensure you have the required information and	
	Horizontal Directional Drilling (Pipeline/Flowline Installation)	Release, Spill or Frac- Out	Drilling Fluid	All	3. the release is within 150 metres of any dwelling. Any volume	you call the Emergency Support Line. Refer to the Corporate ERP Forms section "MER Details for Immediate Telephone Notification by Operator" for further details on what to report.	documentation available. 2. Log in to IRIS and complete the detailed incident report process.	
	Drilling / Fracturing	Release or Spill	Drilling wastes	All	Any volume released that is not approved under GL99-01 ²	for further details on what to report.	Reclamation Report	
	Operation		Fracturing Wastes	All	Any volume released that is not approved under GL2000-01 ³		When the initial incident	
	Well or Facility	Break, leak,	Oil, salt water, condensate, oil & gas	On-lease	All volumes ≥2.0 m³ or 2000 liters requires reporting but only volumes ≥10.0 m³ or		notification indicated that a	
	Operation	malfunction of any equipment or intentional /	waste, emulsion or product	Off-lease	10000 liters require notification Any volume		reclamation report is required, you must submit the report within six months of completing the	
		unintentional action resulting in an escape or release	Refined Chemical	On-lease	All volumes ≥0.5 m³ or 500 liters		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		 PNG014 to ensure you have the required information and documentation available. Log in to IRIS and complete the reclamation report 	

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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 Center 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. Refer to the Corporate ERP Forms section "MOE 30 Day Written Spill Report Form" for report.	MOE has a Wildfire operations / management program.
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. Assists in providing notification to communities. 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 RCMP. 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	Report immediately at the to Contact information available in t		
RHA	 Regional Health Authorities Establish health and safety levels for hazard releases, substances Ensures local health facilities are notified of potential impacts from an incident Monitor health effects and ensures appropriate data is collected. 			

Check with appropriate Pembina SME for further details on reporting requirements.

Notify as indicated by the External Contact Matrix.

	Saskatchewan Agencies			
Agency	Roles and Responsibilities During emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
Saskatch	newan Supporting Agencies			
Saskatchewan OHS Division	 Saskatchewan Occupational Health and Safety 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. 	Notify as indicated by the External Contact Material Saskatchewan OHS Division and WorkSafe Sask	atchewan share a reporting hotline. Site-Specific Plan. dangerous occurrences as soon as is any occurrence at a place of employment, the death of a worker or required a	
WorkSafe Saskatchewan	WorkSafe Saskatchewan ensures proper work safe activities during an emergency and provides support and conducts investigations of worksite incidents	 A structure, scaffold, temporary falsew All or any part of an excavated shaft, to excavation; The failure of a crane or hoist, or the or mobile; An accidental contact with an energize The bursting of a grinding wheel; An uncontrolled spill or escape of a tox A premature detonation or accidental or the failure of an elevated or suspended The failure of an atmosphere-supplying 	verturning of a crane or unit of powered d electrical conductor; ic, 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.

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5.4 CANADA – 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

NATES FOR RESPONDERS	Initi	al Respon	ders		Lead .	Agenc	ies			S	upport	ting / Cod	ordinatir	ng Ager	ncies and C	ther G	overnme	nt Conta	acts		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 INCIDENT TYPE	Ambulance Services	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 Organization	Manitoba Environment	Local Authorities	CER – Canadian Energy Regulator (Formerly NEB – National Energy Board)	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	
						Re	spon	der Tip:														
Engage Technical Specialists / SMEs for support in d	etermi	ning not	ficatio	n requi	rement	s to S	Suppo	orting /	Coord	inating	g and C	Other Ag	encies.	Consi	der deleg	ating n	otificati	on task	s to rele	evant S	MEs.	
Product Release – Liquids	0	0	0	✓	✓	✓	~	✓	~	0	0	0	0	0	0	0	0	0	0	0	0	
Product Release – Gas	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	~	<	~	~	~	~	✓	0	0	0	0	0	0	<	*	0	0	0	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		\							0			
Motor Vehicle Accident – employee	0	0	0									0	0									
Constitut Deleted Instident	0	0	*	0	0		0	0	0					0								
Security Related Incident			_	/	✓	0	0	0	0	0	0	0				0	0					
Radiation Related Incident	0	~	✓						_				0									
· · · · · · · · · · · · · · · · · · ·	0	•	0	0	0	0	0	~	✓													
Radiation Related Incident	0	o ew requir	0	0	0			¥	•	Federa	al Ager	ncies tab										
Radiation Related Incident Crosses international / interprovincial boundary	Revi	_	ement	s in the	e ECCC s	ectio	n in t	he CAN	ADA –													
Radiation Related Incident Crosses international / interprovincial boundary Involves an E2 regulated substance	Revie	ew requi	ement npany	s in the	eCCC s	ectio ails av	n in t vailab	he CAN	ADA – e Area-	/Asset	-speci	fic plan(s	s)	y Rela	tions							

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Version: 2.1

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	 Manitoba Growth, Enterprise, and Trade (GET) – Petroleum Branch Lead provincial government organization in oil and gas industry emergency response. GET, Petroleum Branch may request involvement and consultation depending on the emergency. 	You must report if a spill occurs from a well or oil and gas facility if: a) The spill occurs on, or spreads to land off the wellsite or the site of the oil and gas facility; or b) The volume of fluid spilled is more than 0.5m ³ 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. As soon as practicable, notify the owner of the land.	You must submit a spill report to the district office within 7 days after the day the spill was discovered.	
МЕМО	 Manitoba Emergency Measures Organization (MEMO) Maintain an emergency line (24/7) where petroleum incidents can be reported. Provide MEMO representatives to the site of the incident, as required. Provide consultation regarding emergency response levels, decisions, activities. 			
Manitoba Environment	 Manitoba Environment Assists in evaluating the incident and potential risks from product releases. Assists in monitoring discharges and ensuring appropriate mitigation and response actions are taken. Monitors environmental recovery, when required. 	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	Subsequent Reporting	Additional Supports	
Manitoba Sup	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 1-855-957-SAFE (7233) (toll-free in Manitoba) 204-957-SAFE (7233) (in Winnip 1-855-957-SAFE (7233) (toll-free in Manitoba) 204-957-SAFE (7233) (in Winnip 1-855-957-SAFE (7233) (toll-free in Manitoba) 204-957-SAFE (7233) (in Winnip 1-855-957-SAFE (7233) (toll-free in Manitoba) 204-957-SAFE (7233) (in Winnip 1-855-957-SAFE (7234) (in Winnip 1-855-957	lift, temporary support system or excavation, ous substance, or	

		Manitoba Agencies		
Agency	Roles and Responsibilities During emergencies: What they do / how they can help	Immediate Notice / Verbal Report	Subsequent Reporting	Additional Supports
MEH	 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 requirements.	ents.	
	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 <i>External Contact Matrix - Manitoba</i> . Check with appropriate Pembina SME for further details on reporting requirements	ents.	Operates the Manitoba CISM network: CISM team 24-hour emergency hotline: 1-888-389- 3473

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5.5 CANADA – 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

	Init	ial Respo	nders		Le	ad Agen	icies			Su	pporting / Coord	dinating	Agenci	es and Oth	er Gov	vernme	nt Cont	tacts		Other
NOTES FOR RESPONDERS	L	L	L	Р	Р	Р	L	F	F	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		/ Industrial Fire if the Fire Marshall		Resources and Forestry	nt, Conservation and	Standards/Safety		r Regulator (Formerly Board)	Safety Board	ent Ontario		tion	One	Environment and Client Change Canada (ECCC)	UTEC	Response Assistance	es / Oceans		ada	Cooperative
L Local / Municipal R Regional	S	tment / Office of		l Res	Jme	tanc		Energy Energy I	on S	;eme		orta	Hydro	Clien	CAN		herie		Canada	oobe
L Local / Municipal R Regional P Provincial F Federal	ervices	Department /		of Natural	viro		of Labour		Transportation	anag		of Transportation	_) pue	ada	Emergency	f Fis	9	Gas) Co
✓ Required Contact	S	Dep see a	RCMP	f Na	f En	Technical	f La	Canadian National	odsı	Ϋ́		ŤΤrä	ydrc	ent a	Can	nerg	nt o	昰	and	Oil Spill
Contact if applicable to incident	Ambulance	e I		Ministry o	Ministry of Environment, Parks	1	Ministry o	1 1	1	Emergency Management		Ministry o	Ontario Hydro	ironm CC)	Transport Canada CANUTEC	ΙÇ	Department of Fisheries	ISC / RO / FHIHB	Indian Oil	
INCIDENT TYPE	Aml	Local Fi	Police	Αi	Minist	TSSA	Min	CER NEB	TSB	Eme		Αï	Ont	Enviror (ECCC)	Trai	ERAC	Dep	ISC,	Indi	WCSS
Engage Technical Specialists / SMEs for support in o	0	0	0	✓	✓	✓	0	✓	✓	0		0	0	O	0	0	0	0	0	0
Product Release – Gas	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	~	~	~	~	0	>	~	0		0	0	0	~	~	0	0	0	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								
	0	0	~	0	0	0		0	0	0			0							
Security Related Incident				. 🛦	0		0	0	0	0					0	0				
Radiation Related Incident	0	~	~	~	0															
•	0	0	0	0	0			✓	✓	0		0								
Radiation Related Incident	o Revi	o ew requi	remen	o ts in th	o ne ECC(e CANA	DA – Fe	ederal <i>i</i>	Agencies tab.	0								
Radiation Related Incident Crosses international / interprovincial boundary	o Revi	ew requi	remen mpany	ts in the	o ne ECCO red – de	etails av	vailable	e CANA	DA – Fe Area-/	ederal <i>i</i> Asset-s	pecific plan(s)									
Radiation Related Incident Crosses international / interprovincial boundary Involves an E2 regulated substance	o Revi Noti	ew requi fy rail contact throu	remen mpany ugh Pe	ts in the involvembina	ne ECCC red – de Crisis (etails av Commu	vailable nicatio	e CANA e in the on Call-d	DA – Fe Area-/ <i>i</i> own to	ederal Asset-s		munity l								

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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	 Ministry of Environment, Conservation and Parks (MOE & C/F) *Formerly Ontario Ministry of Environment and Climate Change Responsible for spills of pollutants to the natural environment and drinking water. Coordinates and manages provincial effort to detect, identify, contain, clean up and dispose or minimize release of hazardous materials. 	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)	 Labour and Health and Safety authority in Ontario. Once notified of an incident, MOL will assign an inspector who will respond to the report. The inspector may: view the incident location take photographs and measurements interview witnesses, co-workers, supervisors, employers and anyone else who might have relevant information (for example, equipment manufacturers) examine and test the equipment involved 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. 	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		
Ontario S	upporting Agencies			
Coordinate	Management Ontario (EMO) Provides emergency framework to all ministries and communities. s response when multiple ministries are required for emergency response. Responsible to invoke the Provincial Plan if required.			
Ontario Mir	nistry of Transportation	Notify as indicated by the <i>External Contact Matrix - Ontario</i> . Check with appropriate Pembina SME for further details on reporting requirements.	uirements.	
Ontario Hyd	dro / Hydro One	The second secon		
•	Community Safety and Correctional Services Assist the local authorities with emergency response operations, ne evacuation of persons and property.			

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5.6 U.S. – Montana

5.6.1 Montana Overview

Incident Classification / Level of Emergency

This jurisdiction 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.

5.6.1 Agency Information

Montana Disaster Emergency Services (DES)

Coordinates the efforts of relevant response agencies and departments in preparations for coping with all emergencies or disasters. DES also works closely with the County Rural Emergency Medical Services (EMS) and Rural Volunteer Fire Districts in the surrounding towns.

Immediate Notice / Verbal Report

Contact Montana DES as soon as practicable following discovery of the incident. Refer to Site-Specific plan for contact details.

Subsequent Reporting Requirements NA

Check with appropriate Pembina SME for further details on reporting requirements.

Supporting Agencies

Refer to the applicable Site-Specific Plan for additional contacts.

Check with appropriate Pembina SME for further details on reporting requirements.

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5.6.2 External Contact Matrix – Montana

5.6.2 External Contact Matrix – Montana	Initi	al Respo	nders			Lead Ag	encies			Supp	orting / Coordi	inatin	g Age	ncies and	d Other G	overnme	ent Contacts	Other	
NOTES FOR RESPONDERS	L	L	L	F	S		R	F	F	S		S	S	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 S State F Federal ✓ Required Contact O Contact if applicable to incident		Local Fire Department / Industrial Fire Service	Police	DOT – PHMSA	Montana Disaster Emergency Services		Regional / State Health Authorities	CER – Canadian Energy Regulator (Formerly NEB – National Energy Board) (If Cross- border incident)	TSB – Transportation Safety Board (If Crossborder incident)	State Tribal Nations		State Transportation Authority	State Hydro / Hydro One	Environment and Client Change Canada (ECCC) (If Cross-border incident)	Transport Canada CANUTEC Board (If Cross-border incident)	ERAC – Emergency Response Assistance Canada (If Cross-border incident)		Oil Spill Cooperative	
					_			der Tip:											
Engage Technical Specialists / SMEs for support in				1	I	ents to					Other Agenci						on tasks to relevant		
Product Release – Liquids	0	0	0	*	*		0	✓	<u> </u>	0		0	0	0	0	0		•	
Product Release – Gas Transportation incident involving product release	0	0	0	~	~		0	✓	~	0		0	0	0	0	0			
(Roads/Rail/Pipeline/Air/Marine)	0	0	~	~	~		0	✓	~	0		0	0	0	~	*		•	
Fire / Explosion / BLEVE	0	~	0	~	~		0	✓	✓	0		0	0	>	0	0			
Medical Emergency – serious injury or fatality	~	0	~	~	~		~	✓	~										
Motor Vehicle Accident – employee	0	0	0							0		0							
Security Related Incident	0	0	✓	0	0			0	0				0						
Radiation Related Incident	0	*	~	✓	0		0	•	0	0					0	0			
Crosses international / interprovincial boundary	0	0	0	0	0			✓	~	0		0							
Involves an E2 regulated substance	NA i	n US juri	sdictio	n. If C	ross-bo	order in	cident	t - see Canad	dian ECC	CC sect	ion to review	appli	icabili	ty.					
Involves a High Consequence Area (HCA) Notify Pembina SMEs to review specific incident requirements.																			
Impacts rail	npacts rail Notify rail company involved – details available in the Area-/Asset-specific plan(s)																		
Involves First Nations and Indigenous groups	olves First Nations and Indigenous groups Contact through Pembina Crisis Communication Call-down to Aboriginal and Community Relations																		
Impacts airspace	Fede	US jurisdiction – A Notice to Airman (NOTAM) or Temporary Flight Restriction (TFR) can be requested during the DOT/PHMSA notification (the Federal Aviation Association (FAA) will declare the NOTAM/TFR). If Cross-border incident -request can be made on notification call to applicable Canadian Lead Agency.																	

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5.7 U.S. – North Dakota

5.7.1 North Dakota Overview

Incident Classification / Level of Emergency

This jurisdiction does not have a 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.

5.7.2 Agency Information

North Dakota Department of Emergency Services (NDDES)

- Provides 24/7 emergency communications and resource coordination with more than 50 lead and support agencies, private enterprise, and voluntary organizations to assist local jurisdictions in disaster and emergency response activities.
- Administers federal disaster recovery programs and the Homeland Security Grant Program. Manages
 the Emergency Management Assistance Compact (EMAC) that serves as a national clearinghouse
 though which member states may request and provides mutual aid assistance.
- Local emergency managers serve a key role in coordinating response and recovery efforts by providing situational awareness and accompanying resource requirements.

Supports response and recovery coordination with emergency managers in each county and tribal nation within the state of North Dakota

Immediate Notice / Verbal Report

Contact NDDES as soon as practicable following discovery of the incident. Refer to Site-Specific plan for contact details.

Subsequent Reporting Requirements

Check with appropriate Pembina SME for further details on reporting requirements.

Supporting Agencies

Refer to the applicable Site-Specific Plan for additional contacts. Responders are also encouraged to seek further information from relevant Pembina personnel / SMEs.

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5.7.3 External Contact Matrix – North Dakota

NOTES FOR RESPONDEDS	Initi	al Respo	nders		Lead	Agencies			Supp	orting / Coordi	inatin	g Age	ncies and	Other G	overnme	ent Contacts	Other	
NOTES FOR RESPONDERS	L	L	L	F	S	R	F	F	S		S	S	F	F	F		R	
LEGEND	AGENCY / KESOURCE Ambulance Services	Local Fire Department / Industrial Fire Service	Police	DOT – PHMSA	North Dakota Department of Emergency Services	Regional / State Health Authorities	CER – Canadian Energy Regulator (Formerly NEB – National Energy Board) (If Cross- border incident)	TSB – Transportation Safety Board (If Cross-border incident)	State Tribal Nations		State Transportation Authority	State Hydro / Hydro One	Environment and Client Change Canada (ECCC) (If Cross-border incident)	Transport Canada CANUTEC Board (If Cross-border incident)	ERAC – Emergency Response Assistance Canada (If Cross-border incident)		Oil Spill Cooperative	abota
Responder Tip:																		
Engage Technical Specialists / SMEs for support in		1						rdinatin		Other Agenci						on tasks to relevant		
Product Release – Liquids	0	0	0	✓	*	0	✓		0		0	0	0	0	0		0	
Product Release – Gas	0	0	0	✓	✓	0	~	<u> </u>	0		0	0	0	0	0			
Transportation incident involving product release Roads/Rail/Pipeline/Air/Marine)	0	0	*	*	✓	0	*	~	0		0	0	0	~	*		•	
Fire / Explosion / BLEVE	0	~	0	~	✓	0	✓	~	0		0	0	*	0	0			
Medical Emergency – serious injury or fatality	*	0	~	*	✓	~	✓	✓										
Motor Vehicle Accident – employee	0	0	0						0		0							
Security Related Incident	0	0	✓	0	0		0	0				0						
Radiation Related Incident	0	✓	✓	✓	0	0	0	0	0					0	0			
Crosses international / interprovincial boundary	0	0	0	0	•		✓	✓	0		0							
Involves an E2 regulated substance NA in US jurisdiction. If Cross-border incident - see Canadian ECCC section to review applicability.																		
Involves a High Consequence Area (HCA) Notify Pembina SMEs to review specific incident requirements.																		
Impacts rail Notify rail company involved – details available in the Area-/Asset-specific plan(s)																		
Involves First Nations and Indigenous groups Contact through Pembina Crisis Communication Call-down to Aboriginal and Community Relations																		
US jurisdiction – A Notice to Airman (NOTAM) or Temporary Flight Restriction (TFR) can be requested during the DOT/PHMSA notification (the Federal Aviation Association (FAA) will declare the NOTAM/TFR). If Cross-border incident -request can be made on notification call to applicable Canadian Lead Agency.																		

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5.8 CANADA – Federal Regulator(s)

		Canadian Federal Ager	cies		
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.	the step the OER Informa compan	TSB reporting hotline as soon as possible after discovery of s indicated in Section CER Immediate Notice / Verbal Repor S as well as by telephone. tion required by the TSB is separately identified in the OERS y to ensure the information required by the TSB is entered imeline. OERS will automatically forward this information to	t. Information must be entered. It is the responsibility of the into OERS in accordance with	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 e	vent of an emergency involving dangerous goods, call CAN	UTEC at 1-888-CAN-UTEC (22	6-8832), 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.	 A person sustaining injuries that required immediate medical treatment; An evacuation of people or their shelter in place; The closure of a facility used in loading or unloading of dangerous goods; 				
Responders are encouraged to review the Emergency Response	Class	Description	Packing Group or Category	Quantity	
Guidebook 2016 (available online).	1	Explosives	II	Any quantity	
	2	Gases: Compressed, deeply refrigerated, liquefied or dissolved under pressure	Not applicable	Any quantity	
	3	Flammable and combustible liquids	l or II	Any quantity	
	4	Flammable solids	III	30 L or 30 kg	
	5	Oxidizing substances; organic peroxides	A or B	Any quantity	
	7	Poisonous (toxic) and infectious substances Nuclear substances that are radio active	Not applicable	A level of ionizing radiation greater than the level established in section 39 of the "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 packing group	30 L or 30 kg	
	A follow		ister within 30 days after the	clude in the report, report distribution, and manner of submission. day on which the initial report was made. Refer to Part 8 of the TDG Reporting Requirements of submission.	

	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 environmental or no human life or health. 10) A description of all measures taken or planned to be taken to prev
		(Source: Adapted from Environmental Emergency Regulations, 2019: SOR/2019-51)

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)				
 Federal police agency. Notify as required for initial response and support. May provide the following supports during emergencies: Notifies applicable lead agencies (i.e., AER, OGC, EMBC) and other municipal authorities / authorities with jurisdiction of reported release Provides security and traffic control, and supports public protection measures; may assist in initial area isolation, roadblocks, evacuation, etc. Conducts incident investigation, as required. Clarifies responsibility when fatalities are involved and assist the coroner in the event of a fatality in which there is no criminal wrong-doing. 	The RCMP must also be notified in the case of lost, stolen or misplaced explosives, radioactive materials or infections substances.					
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 (Environmental or Regulatory).				
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.					
Indigenous Services Canada (ISO)						
Indigenous Services Canada (ISC) partners with First Nations communities to prevent, prepare for, respond to, and recover from emergencies.						
Regional Operations (RO)						
Regional Operations (RO) 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)						
First Nations and Inuit Health Branch (FNIHB) 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)	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	Dependent on situation – refer to appropriate Pembina SMEs for direction				
IOGC is an operating agency within Indigenous Services Canada (ISC) that manages and regulates oil and gas resources on First Nation reserve lands.	First Nation lands or property. Spill reporting: Off-lease spills, and on-lease spills greater than 1 m ³ must be reported immediately	(Aboriginal).				

5.9 U.S. – Federal Regulator(s)

	U.S. Federal Agencies	
Roles and Responsibilities	Immediate Notice / Verbal Report	Subsequent Reporting
Pipeline and Hazardous Materials Safety Administration (PHMSA) Under the Department of Transportation (DOT), PHMSA is the agency that develops and enforces regulations for the safe, reliable, and environmentally sound operation of pipeline transportation system in the US and daily shipments of hazardous materials by land, sea, and air. • From the federal level, they oversee the development and implementation of regulations concerning pipeline construction, maintenance and operation, and share these responsibilities with their state regulatory partners. • Regional offices are charged with overseeing the safe and secure movement of daily shipments of hazardous materials by all modes of transportation, as well as ensuring the safe, reliable, and environmentally sound operation of the nation's pipeline infrastructure. Office of Pipeline Safety PHMSA's Office of Pipeline Safety (OPS) is responsible for carrying out a national program to ensure the safe, reliable, and environmentally-sound operation of the nation's natural gas and hazardous liquid pipeline transportation system. OPS administers DOT's national regulatory program, developing regulations and other approaches to risk management to assure safety in design, construction, testing, operation, maintenance, and emergency response for pipeline facilities.	Reporting requirement summary: Within one hour of a release of hazardous materials meeting reporting threshold operators must call the NRC at 1-800-424-8802. Reporting requirement detailed: An accident report is required for pipeline system failures in which there is a release of a hazardous liquid or carbon dioxide resulting in any of the following: a) Explosion or fire not intentionally set by the operator. b) Release of 5 gallons (19 liters) or more of hazardous liquid or carbon dioxide, Exception: A report may not be required for a release of less than 5 barrels (0.8 cubic meters) resulting from a pipeline maintenance activity. Refer to SME and PHMSA regulations for details. (Source: 49 CFR Part 195, §195.50). c) Death of any person; d) Personal injury necessitating hospitalization; e) Estimated property damage, including cost of clean-up and recovery, value of lost product, and damage to the property of the operator or others, or both, exceeding \$50,000. f) Resulted in pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines. g) In the judgment of the operator, was significant even though it did not meet the criteria. At the earliest practicable moment following discovery, but no later than one hour after confirmed discovery, you must notify the National Response Center either by telephone to 800-424-8802 or electronically and must include the following information: (1) Name, address and identification number of the operator (OPID) (2) Name and telephone number of the reporter. (3) The location of the failure. (4) The time of the failure. (5) The fatalities and personal injuries, if any. (6) Initial estimate of amount of product released (7) All other significant facts known by the operator that are relevant to the cause of the failure or extent of the dama	 Within one hour of a release of hazardous materials meeting reporting threshold operators must call the NRC at 1-800-424-8802; Within 48-hours operators must submit an update to the NRC; and Within 30-days operators must submit a report on the relevant PHMSA form below. Operators submit the reports online via the PHMSA Portal. Operators may provide a courtesy call to AID on the NPIC hotline (888) 719-9033 to provide additional information and updates. Reporting requirement detailed: New Information / Confirmation Report Within 48 hours after the confirmed discovery, you must revise or confirm the initial verbal report – include revised estimate of the amount of product released, location of the failure, time of the failure, number of fatalities and injuries, and all other significant facts known by the operator that are relevant to the cause of the accident or extent of the damages. If there are no changes or revisions to the initial report, the operator must confirm the estimates in its initial report. 30 Day Accident Report No later than 30 days after discovery of the accident, file an accident report on DOT Form 7000-1. Refer to Corporate ERP Forms section for details. Note: After you submit the 30 Day Accident Report, if there are any change/updates to the reported information on the original report on DOT Form 7000-1, you must file a supplemental report within 30 days.

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	U.S. Federal Agencies			
Roles and Responsibilities	Immediate Notice / Verbal Report	Subsequent Reporting		
National Response Center (NRC)				
The National Response Center (NRC) is a part of the federally established National Response System and staffed 24 hours a day by the U.S. Coast Guard. It is the designated federal point of contact for reporting all oil, chemical, radiological, biological and etiological discharges into the environment, anywhere in the United States and its territories. The NRC also takes maritime reports of suspicious activity and security breaches within the waters of the United States and its territories. Reports to the NRC activate the National Contingency Plan and the federal government's response capabilities. It is the responsibility of the NRC staff to notify the pre-designated On-Scene Coordinator assigned to the area of the incident and to collect available information on the size and nature of the release, the facility or vessel involved, and the party(ies) responsible for the release. The NRC maintains reports of all releases and spills in a national database.				
Federal Aviation Administration (FAA)				
Under the DOT, the FAA oversees the safety of civil aviation. They can support emergency response by issuing Temporary Flight Restrictions (TFR) in the vicinity of disaster/hazard areas.				
See FAA regulations regarding NOTAM/TFR.				

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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, personal monitors, and computer networks. 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 in the ICP with this task.

The appropriate provincial/state 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 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.
	1	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
	_	nature of the emergency, # and condition of affected people, and call-back
(+)	2	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
	3	Assume command of the current situation.
(MAN)		
(III JII)		Call the Pembina Emergency Hot-line number to activate the call down procedure:
(4)		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.
((R- R-))	4	Consider impacts to members of the public
	•	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).
		> If safe to do so, act to shut down, isolate, control or contain the incident.
		SECURE THE SCENE
Constitution (Constitution Constitution Cons	5	Control access into and out of the impacted areas.
(1 1)	5	Maintain a list of areas cleared.
		> Record details of any person entering or leaving a potentially hazardous area
		CONTROL THE SITUATION
	6	Ensure people are briefed on the hazards in the area.
	6	Continue to monitor the hazardous area.
		Provide regular updates to your supervisor on the status of the incident.
)		Provide regular updates to your supervisor on the status of the incident.

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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.

Qualified 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).

Gei	neral Response Actions
	Pembina's 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

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.	es
 □ Pembina's Initial On-Site Actions. □ General Response Actions □ Review Corporate Spill Contingency Manual 	
7.2.3 Open Water Containment Open water is classified as any water body with primarily wind driven surface movement and neglig subsurface flow. This can include large open water wetlands, lakes, reservoirs or dugouts.	ible
 □ Pembina's Initial On-Site Actions □ Review Corporate Spill Contingency Manual 	
7.2.4 Flowing Water Containment Receptor Types: This type of containment encompasses any other water body with flowing water al a defined route or channel, not influenced by wind driven movement. This includes rivers, creeks, streams, tributaries, ephemeral watercourses and ditches.	long
 □ Pembina's Initial On-Site Actions □ Review Corporate Spill Contingency Manual 	
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 Te 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 softwork includes technical advice, containment, confinement, transfer, and fire suppression.	scop
ERAC is Pembina's provider of emergency preparedness and response for rail transportation incider If a railcar(s) derailment occurs that causes a leak, the car to flip on its side, or poses a safety or environmental threat, the following actions shall be taken:	nts.
Contact Incident Commander (On-Call Area Supervisor) and inform of the incident. Activate the Plan Contact ERAC at 1-800-265-0212 Provide the following information:	

Wetlands are classified as areas of land covered by or saturated with water for enough time to support

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Pembina's ERAP numbers have been removed from the publicly posted version of the Corporate Emergency Management Plan for the protection of private or confidential 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

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.

Ind	Indications of a potential leak include:							
	Noise of escaping vapour – hissing or roaring noise coming from the pipeline		An unusual odour or scent of gas Dense white cloud or fog					
	Slight mist of ice or frozen area on the pipeline		Discolored or dead vegetation					
	Plume of white spray – condensation and freezing moisture in atmosphere		Yellow-stained snow, which may indicate NGL accumulation under the snow					
	Moisture forming on windshields Stalling vehicles or racing diesel engines		Continuous bubbling in wet, flooded area A rainbow or sheen on water					

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Ge	neral Response Actions
	Pembina's Initial On-Site Actions.
	Assess the situation and identify additional hazards which may include:
	• Flammable / toxic vapors, fire / flashback, temperatures / freezing, lack of oxygen surrounding
	the leak. The danger from fire / explosion exists when an escaping vapour mixes with air to
	within the upper explosive limit (UEL).
	• 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).
	• Topography / low lying areas such as river valleys, coulees where plume / drifting gases may
	collect.
	Consider the possibility of an explosion. Eliminate ignition sources.
	Ensure personal safety. Don appropriate personal protection equipment and reassess requirement
	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 personnel accountability system for onsite responders. If
	safe to do so, conduct search and rescue procedures for anyone missing.
	If safe to do so, shutdown, isolate and depressurize and/or contain the release.
	In the event of an LPG / NGL release, allow liquids to evaporate and disperse.
	Initiate initial monitoring for toxic or explosive gas mixtures. Warn people in the immediate vicinity
	and down wind.
	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 RCMP/Police and provincial/state highway authorities for approval to close and detour
	municipal and/or provincial/state highways, as required.
	Request a Fire Hazard Order, Closure Order, or NOTAM from the regulatory agency, as required.
	Develop an Incident Action Plan.
7.3	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.
Ш	Continue air monitoring for H ₂ S/SO ₂ after ignition takes place.

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7.3.1.2	Release	contained	inside	a di	ked	area

In a	In addition 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.		
	Use vacuum trucks to remove pools of spilled material if safe to do so.		
	.1.3 Release into tank farm where tanks have heaters and fire tubes addition to the above <i>General Response Actions:</i>		
	Shutdown equipment. Be aware of indirect heat from the fire tubes		

7.3.2 Liquified Petroleum Gas (LPG)

The primary concern in responding to an 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.

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.

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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	All of which may also be
Propylene	UN 1077	placarded and transported
Butylene	UN 1012	as UN1075 Liquefied
Isobutene	UN 1969	'
Isobutylene	UN 1055	Petroleum Gas (LPG)
 Butadiene 1.3 (stabilized) 	UN 1010	

Pembina's ERAP numbers have been removed from the publicly posted version of the Corporate Emergency Management Plan for the protection of provate or confidential information.

	I Isolate release location (e.g. mobilize roadblocks) for 1.6 km (1 mile) 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 or 1 mile							
	froi	m incident site).						
	Info	orm first responders (e.g., police/sher	iff, fi	re, or ambulance) about the hazards.				
		not direct water at spill or source of le						
		•) and complete any required notifications/reporting.				
				the release site isolated and allow the LPG to escape				
		d disperse into the atmosphere, if safe	-					
		•		CANADA using a Notice to Airman (NOTAM)				
		ossible, monitor air quality at inciden		-				
		,						
For	trar	nsportation related incidents, notify E	RAC,	if required:				
	Δct	ivate the Plan.						
			wida	the following information:				
_	Contact ERAC at 1-800-265-0212 and provide the following information:							
		Name & telephone number		Environmental and climatic conditions	٦			
	_	Lagation		Container information, e.g., tank type, size and				
		Location		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				

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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			Х	
Conduct formal accident assessment			Х	
Notify appropriate regulatory authorities		X		
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			X	
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

Ш	Pembina 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.
	Remove combustible materials and equipment from threatened areas if possible.
	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.
	Perform investigations with any appropriate regulatory agencies and insurance companies.
	Institute cleanup and recovery activities.
	Ensure all extinguishers are recharged after the fire.
-	A. A. Changer Tanke and Marcal Einea
	4.1 Storage Tanks and Vessel Fires
In 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 Section 5.0 External Support and Regulatory Reporting.
7.4	4.2 Small Grass Fires
	addition to the above General Response Actions:
	·
	If safe to do so, use shovels, back pack 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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	I.3 Large Grass / Forest Fires
ın 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.
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 hoat 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

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	Pembina 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	vere weather can happen anywhere, at any time. Severe weather can include hazardous conditions oduced by thunderstorms, including damaging winds, tornadoes, large hail, flooding and flash oding, and winter storms associated with freezing rain, sleet, snow and strong winds.
	Pembina 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.

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 Other Emergencies

7.6.1 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*.

7.6.2 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.

Pembina <i>Initial On-Site Actions</i> 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:
 Your name and location (GPS coordinates if appropriate based on location). Description of injuries and assistance required. Mechanism of injuries. What response is coming and when. Situational awareness to responders including description of hazards in the area. Directions to your location.
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 RCMP/Police.

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 provincial/state Occupational Health and Safety Department.

☐ Ensure the incident site is not disturbed for any required investigations.

7.6.2.1 Air Ambulance Activation

Refer to Area- or Site-specific Plan(s), as applicable, for established air ambulance activation information and directions.

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7.6.3 Motor Vehicle Accident (MVA)

	s is a general guideline for any motor vehicle collision involving company personnel, company iicles, or company operated roads.
	Pembina <i>Initial On-Site Actions</i> 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 RCMP/Police.
7.6	5.4 Security Related Incident
As ma Sec any	part of the Security Management Program, the Security Threat Response Plan (STRP) assists nagement 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 Security for actual or suspected dents involving:
	Bomb threats / suspicious packages; Active protest / civil disobedience; Trespass / vandalism Harassment / violence
Ref	er to The Pipeline for further information and direction.

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7.6.5 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.

7.7 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.

7.7.1 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.

7.7.2 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.

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Prior 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.

When 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.

Following an incident where a fatality or serious injury has taken place, government agency representatives will probably carry out an investigation into the cause of the injury/fatality. After presenting their credentials, these representatives should be given full cooperation in the execution of their duties.

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 provincial/state Occupational Health and Safety Department.

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8.0 POST INCIDENT AND RECOVERY ACTIVITIES

8.1 Incident Close

Once a situation improves, the decision to downgrade a Level 1, Level 2 or Level 3 emergency is made by the Incident Commander and the Emergency Operations Manager in consultation with the energy regulator. This decision may be based on monitoring data, control/ containment of the situation, or reduced risk to the public or environment.

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.

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*.

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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:

 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?

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- 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 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.

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).

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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

The incident scene must remain undisturbed until the investigation has 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.

8.10 Restoration 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

Charac			
Glossary			
Business Unit (BU)	A Pembina operating group that manages a set of operating assets.		
Corporate Emergency Management (EM) Plan	The EM plan provides 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.		
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.		
Emergency Operations	The EOM directs activities from the CEOC in support of a field driven		
Manager (EOM)	incident response.		
Emergency Planning Zone (EPZ)	An 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 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.		
Field Incident Management Team (FIMT)	The FIMT is a field level emergency response group which, under the direction of the IC, responds to an emergency and conducts tactical operations.		
Field On-Call	A local Pembina Operations representative assigned to receive incident notification from the SPCC.		
Hazard Planning Zone	A Hazard Planning Zone is a geographical area determined by using the		
(HPZ) (BC Only)	hazard planning distance as a radius, and within which persons, property		
	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.		

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Glossary			
Incident Commander (IC)	Manages the overall response to emergency incidents. The Incident Commander is responsible for: developing objectives, strategies and tactics that guide the response; assigning personnel to fill necessary 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.		
Incident Command System (ICS)	A standardized, on-scene, all-hazard incident management system. The Incident Command System is flexible in that it can be adapted for large and small incidents.		
Incident Management Team (IMT)	An Incident Commander and the appropriate Command and General Staff personnel assigned to an incident. The level of training and experience of the IMT members, coupled with the identified formal response 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 and USA)	represents the greatest hazard to the public.		
Pembina	Pembina Pipeline Corporation is a reliable energy transportation and midstream service provider that has been serving North America's energy industry for 65 years.		
Pembina Learning System (PLS)	PLS is a centralized and standardized program where Pembina personnel will access and control their own learning. The PLS will provide each employee with a customized assignment of training activities (tasks) that is unique to their individual job role. The PLS links out to Pembina's document control system so Learners will always be presented with the most current, up to date documents. The PLS allows supervisors to track and report on staff competency.		
Pipeline Hazardous Materials Safety Administration (PHMSA)	PHMSA is a United States Department of Transportation agency responsible for developing and enforcing regulations for pipeline transportation.		
Protective Action Zone (PAZ) (Alberta and USA)	The PAZ is the downwind portion of the EPZ. This area is determined using wind direction and monitors that measure the hazard.		
Post Incident Analysis (PIA)	A PIA is the reconstruction of an incident to assess the chain of events that took place, the methods used to control the incident, and how the actions contributed to the eventual outcome.		
Regional Emergency Operations Centre (REOC)	An operations centre established in a suitable location to manage the larger aspects of the emergency that is manned jointly by government 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 (SOLE)	A declaration enabling local authorities to take actions necessary to provide maximum protection to people, property and the environment.
Subject Matter Experts (SME)	An SME is a person with a deep understanding of a particular process, 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.

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APPENDIX - FORMS

ICS Forms	
Copies of the following ICS Forms, typically used for initial in	
documentation of the response, are included in printed cor	
Hard copies of the below forms are also stored at IC	
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 Incide	
printed copies of the <i>Corporate EM</i>	
Hard copies of the below forms are also stored at IC	
ICS Form 202: Incident Objectives	Planning Section Chief
ICS Form 203: Organization Assignment List	Planning Section
ICS Form 204: Assignment List	Planning Section or
100 TOTAL ZOT. ASSISTANCE 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 Pi	peline or the ICS Canada Website.
Hard copies of the forms are stored at ICP and	d CEOC locations.
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 EM Plan Forms				
Copies of the following forms are included in printed copies of the Corporate EM Plan. Hard copies of the below forms are also stored at ICP and CEOC locations.				
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			
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 Script	Notification Group			
Script: Mandatory Evacuation Notification Script	Notification Group			
Security Witness Statement Form	Witness to Security Event			

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Government Reporting Forms					
The following forms are available to responders through government agencies to aid in the collection					
	f information during a response effort.				
Agency	Form Description / Guidance				
Alberta Energy Regulator (AER)	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 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 NEB jurisdiction. OERS is the automated single-window pipeline occurrence notification system established by the NEB and TSB.				
US Department of Transportation (DOT) & PHMSA	DOT Form 7000-1 - Guidelines on how to complete and submit the US DOT PHMSA Hazardous Materials Incident Report Form 7000-1.				
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.				

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1. INCIDENT NAME/NU	JMBER	2. DATE PREPARED	3. TIME PREPARED			
4. MAP SKETCH						
	5. SITUATION SUMMARY AND SAFE	TY BRIEFING				
ICS 201-CAN Page 1 of 4	6. PREPARED BY (Name and Position)	SIGNATURE				



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



	9. CURRENT ORGANIZA	TION
	6. PREPARED BY (Name and Position)	SIGNATURE
ICS 201-CAN Page 3 of 4	o. Fried Article Dr. (Hairio ana Fosicion)	OIOIVATOIL
ŭ		



10. RESOURCES SUMMARY						
Resources Order	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)

1. INCIDENT NAME				2. DA	TE PREPARED	3. TIME PREPARED
4. NAME 5.		5. ICS POSITION	6. OPE	ERATIONAL From:Date		Time
			LINIC	<u></u>	To: Date	Time
		7. PERSONNEL ASSI	GNED			
Nan	ne	ICS Position				Home Base
		8. ACTIVITY LOG	`			
Time Major Events						
Tillio	iviajoi Evento					
9. PREPARED BY (Nan	ne and Position)				SIGNATURE	



Activity Log (ICS 214)

1. INCIDENT NAME				2. DATE PREPARED	3. TIME PREPARED
4. NAME 5. ICS POSITION 6. 0		6. OPE	ERATIONAL From:Date	Time	
PE PE		PERIO		Time	
		8. ACTIVITY L	OG		
Time		Ma	ajor Ever	nts	
9. PREPARED BY (Nan	ne and Position)			SIGNATURE	
ייייין ועם שביי הואמוו	no ana i osition)			3.3.3.7.61	



Incident Objectives (ICS 202)

1. INCIDENT NAME			2. DATE PREPARED	3. HIME
	ate From: me From:	Date To: Time To:		
5. GENERAL CONTROL OBJECTIVES FOR T	HE INCIDENT (Includ	de alternatives)		
6. WEATHER FORECAST				
7. GENERAL SAFETY MESSAGE				
8. ATTACHMENTS (Check if attached) Organization List (ICS 203) Assignment List (ICS 204) Communications Plan (ICS 205)	Medical Plan (IO Incident Map Traffic Plan	CS 206)		
9. PREPARED BY (Planning Section Chief) SIGNATURE		10. APPROVED BY (Incident Commander) SIGNATURE		

ICS 202-CAN



Organization Assignment List (ICS 203)

1. INCIDENT NAME		2. DAT	E	3. TIME	4. OPERAT		_
				1	PERIOD	From:Date	Time
				<u> </u>		To: Date	Time
5. INCIDENT COMMAND AND STAFF				PERATIONS SE	CTION		
Incident Commander/			Cł	nief			
Unified Commanders			De	eputy			
Deputy				BRANCH			
Safety Officer				anch Director			
Information Officer				eputy vision/Group			
Liaison Officer				vision/Group			
				vision/Group			
6. AGENCY/ORGANIZATION REP	RESENTATIVES			vision/Group			
Agency/Organization	Representative			vision/Group			
				_			
				BRANCH			
				anch Director			
				eputy			
				vision/Group			
				vision/Group vision/Group			
7. DI ANNUNIO OFOTIONI				vision/Group			
7. PLANNING SECTION	1			vision/Group			
Chief							
Deputy			C.	BRANCH			
Resources Unit			Br	anch Director			
Situation Unit			De	eputy			
Documentation Unit				vision/Group			
Demobilization Unit				vision/Group			
Technical Specialists				vision/Group			
				vision/Group			
			וט	vision/Group			
			d.	AIR OPERATIO	NS BRANCH		
8. LOGISTICS SECTION			Ai	r Operations Br.	Dir.		
Chief				r Tactical Group			
Deputy			Ai	r Support Group	Sup.		
a. SUPPORT BRANCH							
Director							
Supply Unit			10. FII	NANCIAL/ADMII	NISTRATION S	SECTION	
Facilities Unit				.: af			
Ground Support Unit				nief eputy			
b. SERVICE BRANCH				me Unit			
Director			1	ocurement Unit			
Communications Unit			-	ompensation/Cla	ims Unit		
Medical Unit				ost Unit			
Food Unit			1				
			1				
11. PREPARED BY (Resources Uni	t)		SIGN	ATURE			



Assignment List (ICS 204)

1. BRANCH 2. DIVISION/GROUP/STAGING										
2 INCIDEN	IT NIANAE				<u></u>					
3. INCIDEN	II NAIVIE					PERATIONAL PERIOD	From:Date	Time		
							To: Date	Time		
			5. OPERA							
				Divisi	ion/ Grou	p Supervisor				
Branch Direc	ctor			Stagi	ing Area	Manager				
		6.	. RESOURCES	ASSIGNE	ED TO TH	IIS PERIOD				
Resource Ide	entifier		No. of		ontact	-1-		rting Location, Sp		
			ersons	Cell #, rac	dio treq.	etc.	Equipme	nt and Supplies, I	Remarks	
		+								
		+								
7. WORK AS	SSIGNMEN ⁻	TS								
8. SPECIAL	INSTRUCT	IONS								
İ										
				30:000						
			/ISION/GROUP							I a.
Funct	1	Frequencies	System	Chan.	Fun	nction	Frequencie	÷S ;	System	Chan.
Command	Local Repeat		+		Logistics	Local -				
Div./Group 1					Groun	nd to Air				
PREPARED			APPROVE	-D BY		Id to All		Date	Ті	l me
(Resource Unit			(Planning Se		ef)			Date	'"	IIIC
Signature Signature										



COMMUNICATIONS LIST (ICS 205A)

1. Incident Name:		2. Operational F Date/Time From	Period: om: Date/Time To:						
3. Basic Local Communications Information:									
Incident Assigned Position		Alphabetized)	Method(s) of Contact (phone, pager, cell, etc.)						
4. Prepared by: Name:		Position/Title:	Date/Time:						
ICS 205A-CAN IAP Page	e	Signature:							

<u>This document may contain sensitive personal information.</u>

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		TIME	Date		3. OPERATIO PERIOD			ime		
		PREPARED		-DICAL /	AID CTATION	To: Date	1	ime		
Madical Aid Otations				=DICAL A	AID STATION	Cantact (number or free				
Medical Aid Stations		Location				Contact (number or freq	luency)	Yes	amed	lics No
		1								
		5. TRANSPO	ORTATIC	N (indica	ate air or ground)					
Ambulance Service		Location				Contact (number or free	quency)		of S	
								ALS		BLS
		+								
			6 HC	SPITAL	2					
Llagnital Nama	Address (Lateration		_			or or fraguency	مناملا	ad T	Burn	Ctr
Hospital Name	Address (Lat. and Lon	g. if Helipad)	Air	l Time Grnd	Contact (number	er or frequency)	Helip Yes		Yes	No
								\dashv		
								\dashv		
								_		
	7	. SPECIAL M	EDICAL	EMERGE	NCY PROCEDU	JRES				
8. PREPARED BY				9. APPI	RUNED					
(Medical Unit Leader)				BY (Saf	ety Officer)					
SIGNATURE				SIGNA	TURE					
				l						

ICS 206-CAN



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

AIR MONITORING LOG

	AIR MONITORING LOG									
DATE:							NNW 337.5°	N 360° NNE 22.5°		
NAME:							NW 315°	NE 45°		
TITLE:						WNW 292.5°		ENE 87.5°		
ICS POSITI	ON:					W 270°		E 90°		
PAGE NO.	:					wsw	\/	ESE		
NOTE: Tak	ce reading	gs at grou	ınd level.			WSW 247.5° SSW SSE 135° SSE 157.5° 180°				
TIME	LEL %	H₂S	SO ₂	O ₂ %	WIND D	TO	WIND SPEED/	LOCATION OF READING AND COMMENTS		
							TEMP. (Est.)			

BOMB THREAT FORM

		GENERAL INF	ORMATION			
CALL RECEIVED BY		DATE		TINAL	OF CALL.	AM
(Name):		(mm/dd/yyyy)):	TIIVIE	OF CALL:	☐ PM
		THRE			-	
	No	te: Try to use	exact wording.			
	OI	IESTIONS TO A	SK THE CALLER			
When will the bomb go off?	<u> </u>	ALSTIONS TO A	OK THE CALLER			
When will the some go on.						
Where is the bomb?						
What does the bomb look like	?					
Miles and a supplied to the second se			l			
Where exactly (e.g., office/bui	liding/facility/pip	beline, etc.) did	you put the bomb?			
Where are you calling from?						
Why are you planting the bom	nh?					
willy are you planting the boll	ib:					
Who are you?						
Are you alone?						
, , , , , , , , , , , , , , , , , , , ,						
VOICE			ND SOUNDS CHECKLIS		ACCENT	
VOICE Male or Female	ATTITUI Calm	DE B	ACKGROUND SOUND Office Machines)S	ACCENT English	
Adult or Child	Angry		Airplanes	- -	French	
Slurred	Laughing		Factory Sounds	<u></u>	Italian	
Distorted/Synthesized	☐ Emotional		Traffic		German	
Deep	Accusatory		Trains		Asian Specify:	
Raspy	Incoherent		Music		Other:	
Intoxicated	Nasal		Children			
Stutter	Nervous		Voices			
Nasal	Other:		Other:			
Deep Breathing						
Lisp Other:						
U Other.						

SESMS 9.2.02-FRM-003 V.2 04-2016

INCIDENT ACTION PLAN COVER SHEET

To be completed by the Planning Section Chief.

INCIDENT INFORMATION								
1. INCIDENT NAME: 2. OPERATIONAL PERIOD TO BE COVERED BY (Date/Time)					ВҮ ІАР			
		From:	/	To:	/			
	3. APPROVED BY INCIDENT COMMANDER(S)							
Organization:	Name:		Signature:					
The item	4. INCIDENT A s checked below are inclu		nt Action Pla	ın.				
CS 202 – Incident Objectives								
CS 203 – Organization Assignment List								
CS 204 – Assignment List								
CS 205A – Communications L	ist							
CS 206 – Medical Plan								
CS 208 – Safety Message / Pla	an							
5. PREPARED BY:		D	ATE/TIME:	/				

PUBLIC INFORMATION HOLDING STATEMENT

If you are approached by media, please feel empowered to say the following as appropriate to the situation.

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.

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.

Direct all media inquiries to Pembina's media relations team at: 403-691-7601 1-844-775-6397 media@pembina.com

Due to the sensitive nature of a response, 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

PUBLIC NOTIFICATION / VERIFICATION RECORD

PUBLIC NOTIFICATION / VERIFICATION RECORD							
PREPARED BY: DATE:							
NAMES	MAP AND						
(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	RESIDENCE PHONE NO.	DESTINATION PHONE NO.	ARRIVAL TIME	DEPARTURE TIME	COMMENTS		

RESIDENT EXPENSE CLAIM FORM

		F	RESIDENT EX	PENSE	CLAI	M FORM			
INCIDENT NAME:									
DATE SUBMITTED:									
RESIDENT NAME:	RESIDENT NAME:								
MAILING ADDRESS:	MAILING ADDRESS:								
LOCATION/ADDRESS OF RESIDENCE/BUSINESS/EMERGENCY RESPONSE PLAN MAP NO.:									
HOME PHONE:				PI	IONE	WHILE EVA	CUATED:		
ADDRESS WHILE EVA	ACUATED:								
EXPENSES (Attach Receipts)*	DATE	DATE	DATE	DA	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:					PHO	ONE NO.:			
					SUE	BMITTED BY:			

PPL0000 V.XX MM-YYYY

ROADBLOCK VEHICLE LOG

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

SHELTERING NOTIFICATION SCRIPT

At <u>(time)</u> on <u>(Date)</u>, Pembina <u>(identified an OR is currently investigating a potential incident)</u> 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 INFORMATION					
PROJECT:					
NAME:		TITLE/POSITION:			
WORK PHONE:	CELL PHONE:		EMAIL:		
DATE (mm/dd/yyyy):	TIME:	LOCATION:			
	DESCRIPTION OF C	IRCUMSTANCES			
Who was present? Exactly what happened	and was said?:				
STATEMENT OF:					
	DESCRIPTION OF PERSON	J(S)/PERPETRATO	R(S)		
If Person(s)/Perpetrator(s) are unknown, d			(5)		
HEIGHT:	WEIGHT:		EYE COLOUR:		
COLOUR OF HAIR:		FACIAL HAIR, IF AN			
GENDER: Male Female	'	·			
CLOTHING (for example, colour of cap, jacl	ket, pants, gloves, and ty	pe of footwear):			
DISTINCTIVE MARKINGS, SUCH AS TATTOO	S AND SCARS:				
VOICE AND DACKEDOLIND CHARACTERIST	CC.				
VOICE AND BACKGROUND CHARACTERISTI	CS:				

SECURITY WITNESS STATEMENT FORM

	DESCRIPTION OF VEHICLE	
If a vehicle was involved:		
TYPE:	MAKE:	MODEL:
COLOUR:	LICENCE NO.:	PROVINCE:
DISTINCTIVE MARKINGS ON THE VEHICLE,	SUCH AS DAMAGE ANYWHERE:	
·		
OTHER:		
	ADDITIONAL DETAILS	
	hat exactly was said and describe any physic	cal actions (for example, clenching of fists,
brandishing an object) the person did whe	n making the threat:	
	he nature (for example, pushed, punched in	
sustained injuries and type (for example, c	ut, bruised, etc.) and if you obtained medica	al attention:
Did you report the threat or assault to the	police? If so, provide the name of the office	r receiving your complaint and any related
file number given to you.		
Note: Continue on additional paper if you	run out of room.	



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, locations of surface installments and information collected during consultation.

PRAIRIE SKY DISTRICT VANTAGE HVP PIPELINE SYSTEM

TRANSMISSION BUSINESS UNIT (TBU)

EMERGENCY MANAGEMENT PLAN

24-HOUR EMERGENCY LINE: 1-800-360-4706

CONTAINS CONFIDENTIAL INFORMATION

VANTAGE HVP PIPELINE SYSTEM SPECIFIC INFORMATION

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VANTAGE SYSTEM EMERGENCY RESPONSE PLAN

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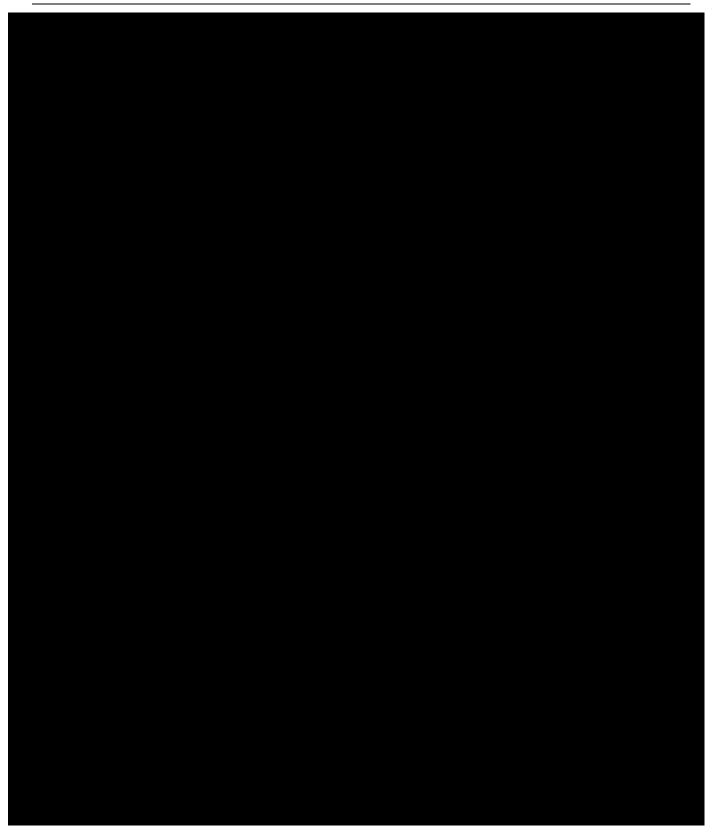
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DISTRIBUTION LIST

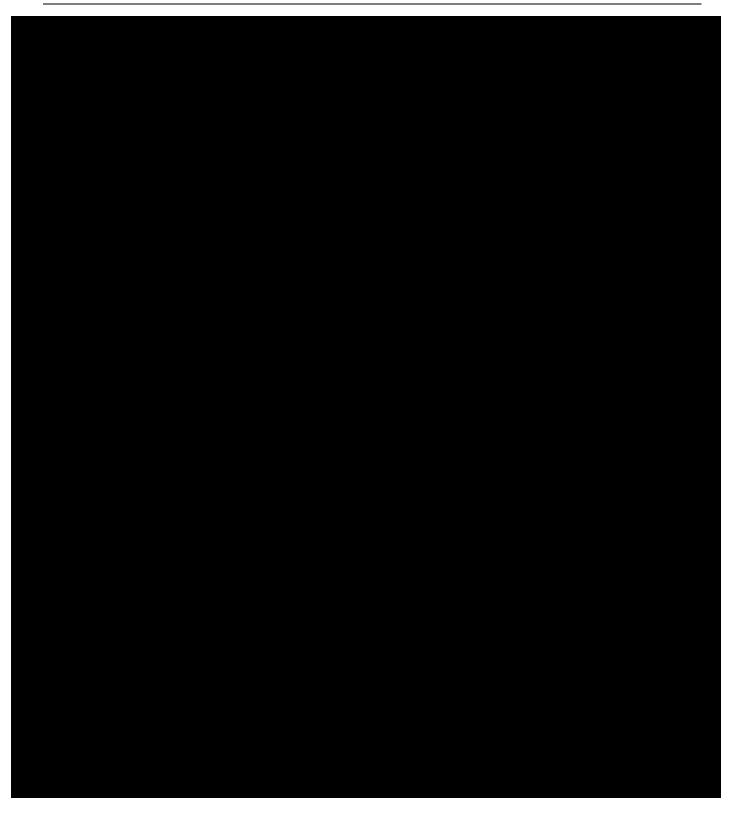
Copies of this site-specific section (to work in conjunction with the Corporate ERP) are distributed according to the following distribution list. Overall responsibility for the distribution of the manuals rests with the Emergency Management (EM) Team.



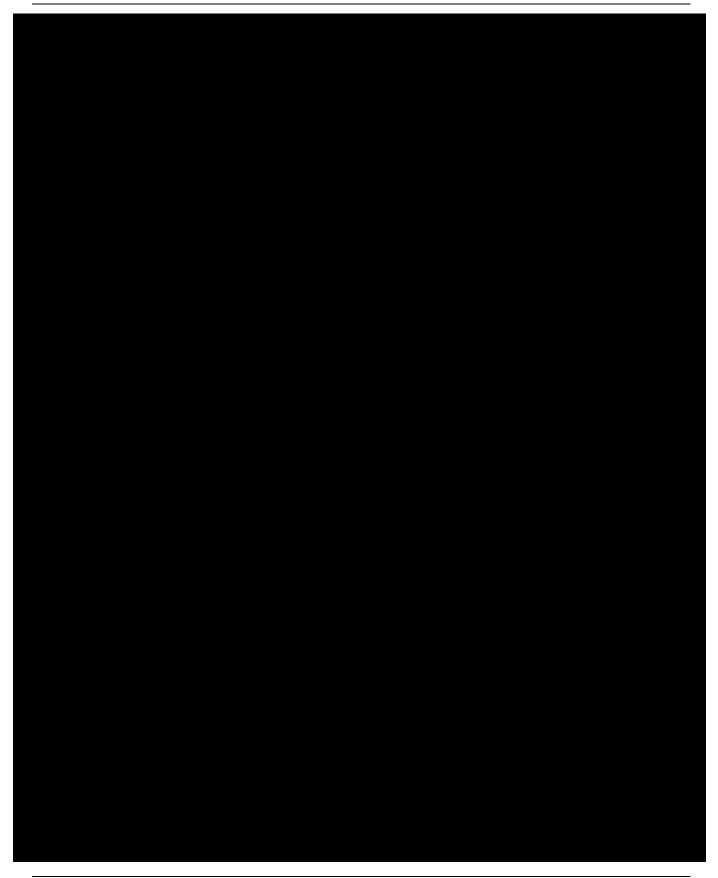
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Throughout this document, some details have been removed from the publicly posted version for the protection of private and/or confidential information. This may include names, phone numbers, addresses, locations of surface installments and information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

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REVISION RECORD

The Emergency Management (EM) Team in coordination with the District Field Offices/Plants shall be responsible for the maintenance of this ERP. This ERP 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 ERP, as they are received.

Version	Date of Revision	Description of Revisions
1.0	June 2015	Submission of the Pembina Prairie Facilities Ltd. Site Specific Supplement and the Pembina Corporate ERP
1.0	November 2017	Update to the Corporate ERP to include U.S. regulatory information and inclusion of a Pembina operated sitespecific supplement to the ERP
2.0	November 2018	Review and update to internal and external contact information, technical data, and area stakeholders. Update distribution list. Update page numbers as needed-Completed Nov 2018
3.0	December 2019	Restructured the ERP document and combined with Empress HVP Pipeline ERP document. Reviewed and completed necessary revisions to content.
4.0	December 2020	Restructured the ERP document. Reviewed and completed necessary revisions to content.

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Emergency Response Plan (ERP) Revision Request Form

EM 5.3.1-FRM V1 11-2017

NOTE: If you find any errors in the ERP, 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 ERP(s).

Send to: Pembina Pipeline Corporation

4000, 585 – 8 Avenue S.W. Calgary, AB T2P 1G1 Or E-mail: Emergency.Management@pembina.com

ERP REVISION IDENTIFICATION INFORMATION					
ERP NAME:	17 M. ST. T.				
VERSION NUMBER/DATE:	SECTION NUMBER:	PAGE NUMBER:			
REVISION REQUESTED BY:	ORGANIZAT	TION:			
	DESCRIPTION OF REVISION				
	RATIONALE				
	27.0				
	EM TEAM USE ONLY				
REVIEWED/APPROVED BY:		CORRECTIVE ACTION NO.:			
If not approved, provide explanation and da	ite follow up communication t	o Requestor completed.:			

VANTAGE SYSTEM EMERGENCY RESPONSE PLAN

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1.0 INTRODUCTION

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

The Corporate ERP 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 ERP. 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

Personal information that is gathered from stakeholders is governed by the privacy provisions of the applicable Privacy Acts/Laws and is only provided to key emergency responders in the event of an emergency. Personal information is only included in confidential copies of the ERP which are identified in the Distribution List. If notification to surface developments within the EPZ is required, confidential information will be made available to the Canada Energy Regulator (CER) / US Department of Transportation (DOT) upon request.

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1.1 System Description

1.1.1 Vantage HVP Pipeline

Pembina owns and operates the Vantage HVP Pipeline System which transports ethane from Tioga, North Dakota to a tie-in with Pembina's Alberta Ethane Gathering System (AEGS) at Empress, Alberta. The Vantage system involves a total of 789 kilometers (490 miles) of pipeline, which includes four (4) segments, that safely transports ethane into Alberta for use in the petrochemical industry:

- 4 km (2.5 miles) of 10" line in Alberta
- 582 km (362 miles) of 10" line in Saskatchewan
- 128 km (80 miles) of 10" line in North Dakota
- 75 km (47 miles) of 8" line of the West Spur lateral also in North Dakota

Surface facilities include:

- 38 remotely controlled block valves
- Pump stations near Empress within Alberta, as well as pump stations near Carnagh,
 Aneroid, Assiniboia, and Minton within Saskatchewan

Vantage Pipeline operations are monitored from the Pembina Sherwood Park Control Centre (SPCC) 24 hours a day.

The Emergency Planning Zone (EPZ) for the Vantage Pipeline was determined to extend a distance of 995 metres or 1088 yards on either side of the pipeline. The EPZ for the Vantage Pipeline is located in the southern-most portion of Saskatchewan, Canada in close proximity to the Canada/USA border. Although the pipeline does not run through Montana, USA approximately 6530 yards of the EPZ extends into Sheridan County, Montana, with the remainder of the EPZ in North Dakota, USA.

The portion of the pipeline system within the State of Montana has no residents or surface developments within the EPZ.

Common land uses along the Vantage Pipeline System; located within the southcentral region of Saskatchewan and Alberta (in Canada), and the central northern region of North Dakota and Montana (in the USA) varies from cattle ranching, agricultural farming and crown/federal land. The remainder of the system is primarily located on privately owned land with residential developments and some level of oil and gas development. Stakeholders within the Vantage HVP Pipeline EPZ include residents, businesses, and other industrial operators.

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There are no First Nations / Tribal Reserves within the Vantage HVP Pipeline EPZ. A portion of the City of Tioga, North Dakota is within the Vantage HVP Pipeline EPZ.

1.1.2 Empress HVP Pipeline

The Empress Pipeline is owned by Veresen Midstream General Partner Inc. and Veresen Midstream Limited Partnership, together Veresen Midstream. Veresen Midstream is jointly owned by Pembina Pipeline Corporation (Pembina) and Kohlberg Kravis Roberts (KKR) and contract operated by Pembina.

The NPS 10" (273.1 mm) pipeline is approximately 25 km in length and runs between a tie-in valve at 12-14-020-01 W4M in Alberta to a tie-valve in 06-20-022-29 W3M in Saskatchewan. The pipeline is used to transport ethane gas between Pembina's AEGS pipeline system and Pembina's Burstall NGL Storage Terminal located at 07-20-022-29 W3M.

The EPZ for the Empress Pipeline is 900 m.

Empress Pipeline operations are monitored from the Pembina Sherwood Park Control Centre 24 hours a day.

Common land use along the Empress Pipeline; located south and east of the South Saskatchewan River, is primarily agricultural with some grazing lease holders. There is limited oil and gas activity. There is only one (1) full time and one (1) part-time residence included within the Empress Pipeline EPZ by egress and four (4) vacant farmhouses with outbuildings.

There are no First Nations / Tribal Reserves within the Empress EPZ.

The only facility within the Empress EPZ is the Pembina NGL Storage Terminal located 07-20-022-29 W3M.

The Empress EPZ falls within Cypress County in Alberta and within the RM of Deer Forks No. 232 in Saskatchewan.

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1.2 Land Use

Area stakeholders within the Vantage/Empress Pipeline System EPZ:

Area Stakeholders		
Counties/Rural Municipalities/Cities		
Saskatchewan, Canada RM of Arlington No. 79 RM of Auvergne No. 76 RM of Bengough No. 40 RM of Big Stick No. 141 RM of Bone Creek No. 108 RM of Carmichael No. 109 RM of Deer Forks No. 232 RM of Enterprise No. 142 RM of Excel No. 71	 RM of Lake Alma No. 8 RM of Lake of the Rivers No. 72 RM of Laurier No. 38 RM of Piapot No. 110 RM of Pinto Creek No. 75 RM of Souris Valley No. 7 RM of Stonehenge No. 73 RM of Surprise Valley No. 9 RM of The Gap No. 39 RM of Willow Bunch No. 42 	
RM of Grassy Creek No. 78	 RM of Wise Creek No. 77 RM of Wood River No. 74 	
Cypress County Montana, USA Sheridan County North Dakota, USA Divide County Williams County Waterways		
Barrot Lake Blackjack Lake Blacktail Creek Bone Creek Bridge Creek Cottonwood Creek Cow Creek Grassy Creek Lynthorpe Creek Maple Creek Marsland Slough McGrath Lake Notukeu Creek Notukeu Lake Overland Lake	 Painted Woods Creek Pats Coulee Creek Piapot Creek Pinto Creek Rattler Lake Rock Creek Scorio Creek Skjermo Lake Skull Creek Stiles Lake Swift Current Creek Willow Bunch Lake Willow Creek Wood River 	

		Area Stakeholde	rs	
Railwa	ays			
Canad	a Canadian Pacific Railway Great Sandhills Railway Great Western Railway			
USA •	Dakota Missouri Valley and Wo			
Highw	rays			
Canad	a		. 10 10 10 10 10	
•	Highway 1	•	Highway 358	
•	Highway 2	•	Highway 371	
•	Highway 4	•	Highway 545	
•	Highway 6	•	Highway 610	
•	Highway 13	•	Highway 611	
•	Highway 18	•	Highway 628	
•	Highway 19	•	Highway 631	
	Highway 21	•	Highway 633	
•	Highway 34	•	Highway 635	
•	Highway 36	•	Highway 705	
•	Highway 58	•	Highway 724	
•	Highway 321	•	Highway 728	
North	Dakota, USA			
•	Highway 5	•	Highway 40	
•	Highway 8	•	Highway 42	
•	Highway 10	•	Highway 50	
	Highway 11	•	Route 85	

VANTAGE SYSTEM EMERGENCY RESPONSE PLAN

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2.0 CONTACT NUMBERS

2.1 Pembina Corporate Contacts

Name	Location	Phone Number
Corporate Contact Numbers		
24-Hr Emergency Sherwood Park Control Centre	Sherwood Park, AB	1-800-360-4706
Emergency Management 24-Hr On-Call	Calgary, AB	
Crisis Communication Team 24-Hr On-Call	Calgary, AB	
Environment 24-Hr On-Call	Calgary, AB	1 = 0
Corporate EOC -	Calgary, AB	
Head Office - Main Reception (Business Hours)	Calgary, AB	403-231-7500
Aboriginal and Community Relations	Calgary, AB	
Sherwood Park Control Centre Foreman 1	Sherwood Park, AB	
Transmission Business Unit (TBU) Contact Number	'S	
General Manager, Operations	Calgary, AB	
Sr. Manager, Engineering	Calgary, AB	
Manager AEGS/Vantage District	Sherwood Park, AB	

mergency Management	
CS, 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	
nvironment	
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	
Regulatory	
Regulatory compliance, regulatory affairs, regulatory liaison	
and	
Surface lands compliance, access negotiation, public information, andowner compensation	
Safety	
Site safety, risk assessment, project safety, safety plan development	
Supply Chain	
/endor approvals, logistics, vendor on-boarding, vendor selection. ncluding access to Pembina's aviation category specialist.	
nformation Systems	
T management, IT security, IT resourcing, IT process and system compliance	
inance	
Finance and admin, project costing, PO development, AFE development, cost tracking, financial systems	

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	Corporate Radiation S	afety Officers (RSO)	
Name	Office	Phone	Cell
4. <u>1888</u> ., 1			

Site Radiation Safety Officers (RSO)			
Office/Site RSO Office	Site RSO	Foreman/Supervisor	Manager
	1		

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2.2 Pembina Vantage System Contacts

Field Office Contact Numbers			
Name	Title	Office	Cell
Incident Commanders			
			3
Salety Officers			
	7		
Liaison Officers			
Public Information Officers			
Scribes			
		4	
			-
Logistics Section Chiefs			
Logistics Section Ciners			
Planning Section Chiefs			
Finance / Admin Section Chic	efs	- 31	

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Office	Cell
	,
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	100

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Registered Shock Trauma Air Rescue Society (STARS) Sites		

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2.3 Federal

2.3.1 Government Reporting Contacts

Agency	Reporting	Location	Phone Number
Regulators			
Canada Energy Regulator	Immediately Reportable Events (as defined on page 1-21 of Pembina's Corporate emergency response plan) on any CER regulated pipeline or facility should be reported immediately (ASAP and no later than three hours of the incident being discovered) to the TSB's Reporting Hotline as well as electronically in the CER's Online Event Reporting System (OERS) at https://apps.cer-one.gc.ca/ers). All other events not deemed "significant" must be reported within 24 hours of occurrence or discovery to the Online Reporting System.		

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2.4 Alberta

2.4.1 Emergency Services

Name of Organization	Address	City / Town	Phone Number
Police			
Redcliff RCMP Detachment			
Oyen RCMP Detachment			
Ambulance			
Ground Ambulance provided by AHS			
STARS			
Hospitals			
Medicine Hat Regional Hospital			
Big Country Hospital			
Emergency Response Assistance Canada (ERAC)		
Pembina ERP Reference Number LPG Products (NGL Corporation):			
Fire Department			
City of Medicine Hat Fire Station #1			
City of Medicine Hat Fire Station #2			
City of Medicine Hat Fire Station #3			
Empress Fire Station			

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2.4.2 Government Reporting Contacts

Agency	Reporting	Location	Phone Number
Regulators			
Environment and Climate Change Canada via Alberta Environment and Parks (AEP)	Regulations do not specify and quantified thresholds; therefore, all environmental emergencies involving a E2 regulated substance must be reported. • a verbal notification is to be made as soon as possible • a written report should be made within 30 days		
Alberta Energy Regulator (AER) & Environmental Response	 Verbal notification immediately: At a Level 1, 2 or 3 Emergency If members of the public or media are contacted Any substance release that may cause, is causing, or has caused an adverse effect Any substance release into a waterbody Any uncontrolled gas release of more than 30,000 m³ Any well flowing uncontrolled Pipeline hits Any unrefined product release of more than 2 m³ on lease Any unrefined product release of any amount off lease Any pipeline release or pipeline break (including during pressure testing) Any fire that caused by a flare or incinerator Any fire causing a loss of more than 2 m³ of oil or 30,000 m³ of gas, or causing damage to a wellhead Any fire that occurs on an oil sands site that results in the deployment of major firefighting equipment 		

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Agency	Reporting	Location	Phone Number
Local Authority		L TILT	
Cypress County	Must notify at a Level 1 Emergency if members of the public or media have been contacted Must notify at a Level 2 and 3 Emergency		
Special Areas 2	Must notify at a Level 1 Emergency if members of the public or media have been contacted Must notify at a Level 2 and 3 Emergency		
Health Authority			
Alberta Health Services - South Zone	Must notify at a Level 1 Emergency if members of the public or media have been contacted Must notify at a Level 2 and 3 Emergency		

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2.4.3 Additional Government Contacts

Agency	Reporting	Location	Phone Number
Alberta Emergency Management Agency (AEMA) – Agency Response Readiness Centre (ARRC)	If required, as a courtesy, to report a spill, gas release, fire/explosion, or when there is impact to the public		
Alberta Environment and Parks – Fish and Wildlife	To report a spill, gas release, fire/explosion, or when there is impact to the public		
Agriculture and Forestry – Forests	To report a wildfire		
Alberta Transportation	To report when a single or double numbered highway is or may be impacted by a spill, release, or fire/explosion		
Alberta Transportation – Hanna	Hanna District Office		
Highway Maintenance Contractor CMA 19 - Emcon Services Inc.	To report when a single or double numbered highway is or may be impacted by a spill, release, or fire/explosion		
Occupational Health & Safety (OH&S)	 To report danger to a worker from a spill, release or fire/explosion To report a fatality (within 24 hours) or a serious injury (within 72 hours) 		
Worker's Compensation Board (WCB)	To report a fatality (within 24 hours) or a serious injury (within 72 hours)		
Alberta Boilers Safety Association (ABSA)	Report when a pressure vessel is involved		
Municipal Affairs – Safety Services Branch	To report a fire/explosion or electrical incident		
Dept. of Fisheries and Oceans (DFO)	To report a spill or gas release impacting waterways		
Transport Canada — Navigable Water / Office of Boating	To report a spill or gas release impacting waterways		

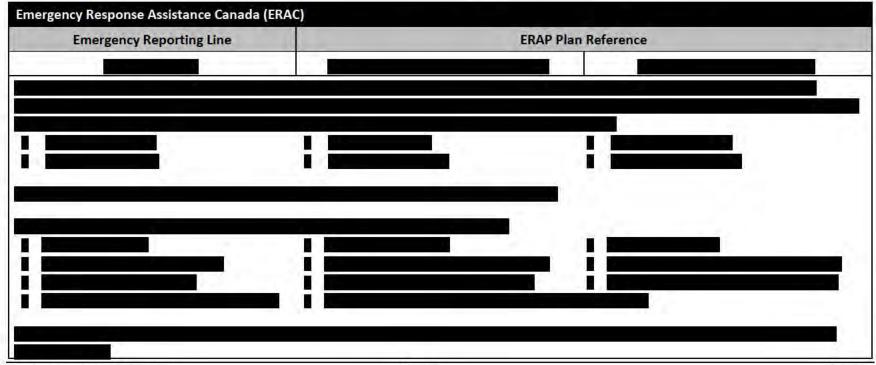
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Agency	Reporting	Location	Phone Number
Alberta One-Call	As a courtesy, to report a spill or gas release		
NAV Canada – Customer Service Centre	 To request a Notice to Airmen (Closure of Air Space) in consultation with the appropriate government authorities 		
Canadian Transport Emergency Centre (CANUTEC)	 To report a transportation related incident including a spill, release or fire 		
Canadian Coast Guard – Search and Rescue	To request search and rescue assistance		

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2.4.4 Mutual Aid Groups

Area			



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2.4.5 Government Agency Mutual Aid

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

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Number
Roles and Responsibilit	ies			
7				
Municipal Resources				
Reception Centre(s)				
Emergency Operations	Centre(s)			
Description of Drinking	Water Systems and ot	her important features		
			e l	

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Number
oles and Responsibilit	ies			
			n S	
			(1)	
mergency Operations	Centre(s)			

Contact Type	Zone	24-Hour Number	Alternate Contact
			Ì
vironmental Public Health Ro	les and Responsibilities		
THE COLUMN TWO STATES OF THE COLUMN TWO STATES			
4 -			
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			Alberta Hei

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2.4.6 Emergency Response Support Services

Vendors that provide support services during regular operations may also be utilized during an emergency; however, contact information for those services is maintained outside of this plan.

Company Name	Equipment / Services	Location	Main Number	24-Hr Number
commodations			20	
rcraft Fixed Wing				
			27	
				_
r Monitoring			1	
				10
=====2				

Company Name	Equipment / Services	Location	Main Number	24-Hr Number
Backhoes				
				-
Communications				
Construction Equipment				
+				

Company Name	Equipment / Services	Location	Main Number	24-Hr Number
Cranes				
Electrical Contractors				
	<u> </u>			
Emergency Management Suppor	rt			
4				

Company Name	Equipment / Services	Location	Main Number	24-Hr Number
mergency Management Suppo	rt Cont'd.			
nvironmental Contractors	1.00		4	
		4 1		
			10	
			1	l — — —
				<u> </u>
re Fighting				
		4 23		

Company Name	Equipment / Services	Location	Main Number	24-Hr Number
Fire Fighting Cont'd.	201			
			11	
	j			
Flare Stack (Portable)		-		
General Contractors			+ -	
General Contractors				
	No.			
Helicopters / Aerial Surveillance		-		

Company Name	Equipment / Services	Location	Main Number	24-Hr Number
Line Locators				
Media			+	
		سند ا		
Pipeline Inspection			r	
		- II 181		

Company Name	Equipment / Services	Location	Main Number	24-Hr Number
Pipeline Inspection Cont'd.				
			V	
			100	_
Railways				
				1.
Rental Companies				
) :	
Spill Response				
			M	
La l'				

Company Name	Equipment / Services	Location	Main Number	24-Hr Number
Spill Response Cont'd.				
		7 <u></u>	1	· (2
	-)
				l l
Supply Stores				
1 1	<u> </u>			_
Welders				
	i e			
	1			

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Company Name	Equipment / Services	Location	Main Number	24-Hr Number
Wildlife Management Contracto	rs			
	- 3			-9-
Wildlife Rehabilitation				

Vendors that provide support services during regular operations may also be utilized during an emergency; however, contact information for those services is maintained outside of this plan.

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2.4.7 Reception Centres

To ensure a coordinated response, the Reception Centre(s) is ideally activated jointly by Pembina Pipeline 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.

Name of Centre	Address	Amenities	Contact	Phone Number
				1 3 <u>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 </u>

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2.4.8 School Districts

Name	City / Town	Contact	Phone
Prairie Rose School Division No. 8			
Medicine Hat Catholic Separate Regional Division No. 20			
Ecole Les Cypress			
School Board - Roles & Responsibilities			
School Board - Notes & Responsibilities			

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2.5 Saskatchewan

2.5.1 Emergency Services

Name of Organization	Address	City / Town	Phone Number
Fire Department			
737 Fire Department (Covers R.M. of Souris Valley No.7)			
Assiniboia Fire Department (Covers R.M. of Lake of the Rivers no.72)			
Bengough Fire Department			
Burstall Fire Department (Covers R.M. of Deer Forks No. 232)			
Ceylon & District Fire Protection (Covers R.M. of The Gap No. 39)			7
Fox Valley Fire Department			
Golden Prairie Fire Department (Covers R.M. of Big Stick No. 141)			
Gull Lake Fire Department (Covers R.M. of Carmichael No. 109)			
Kincaid Rural Fire Department (Covers R.M. of Pinto Creek No. 75)			
Limerick Fire Association			
Minton Fire Department (Covers R.M. of Surprise Valley No. 9)			
Radville-Laurier Fire Department (Covers R.M.'s of Lake Alma No. 8 & Laurier No. 38)			
Richmound Fire Department (Covers R.M. of Enterprise No. 142)			

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Name of Organization	Address	City / Town	Phone Number
Fire Department Cont'd.			
Shaunavon District Fire & Rescue (Covers R.M.'s of Arlington No. 79, Bone Creek No. 108, Grassy Creek No. 78 & Wise Creek No. 77)			
Piapot Fire Department			
Ponteix Fire Department			
Viceroy Fire Department (Covers R.M. of Excel No. 71)			
Willow Bunch Volunteer Fire Department			
Police			
Assiniboia RCMP Detachment			
Coronach RCMP Detachment			
Gravelbourg RCMP Detachment			
Leader RCMP Detachment			
Maple Creek RCMP Detachment			K
Ponteix RCMP Detachment			
Shaunavon RCMP Detachment			
Swift Current RCMP Detachment (Rural)			
Weyburn RCMP Detachment			

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Name of Organization	Address	City / Town	Phone Number
Ambulance			
Estevan EMS			
STARS Air Ambulance			
Shaunavon EMS			
Swift Current and District Ambulance Services			
Saskatchewan Air Ambulance			
Hospitals			
Assiniboia Union Hospital			
Shaunavon Hospital			<u> </u>
Cypress Regional Hospital			
St. Joseph's Hospital	11		
Leader Hospital	/		
Emergency Response Assistance Canada (ERAC)			
Pembina ERP Reference Number LPG Products (NGL Corporation)			

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2.5.2 Government Reporting Contacts

Agency	Reporting	Location	Phone Number
Regulators			
Saskatchewan Ministry of Energy & Resources	 Verbal notification immediately: Any fires resulting from the operation of a licensed well, facility, pipeline or flowline. Any release or spill of NORMS at any volume Any volume of oil by-products released that is not approved under GL97-02 Any uncontrolled release of gases or fluids form a well Any controlled diversion of gasses or fluid from the well to a flare tank Any contact damage to a flow line or pipeline Any break to a flowline or pipeline Any pipeline or flowline release of oil, salt water or condensate that are > 2.0 cubic meters (m3) of fluid on-lease or any volume off-lease Any on-lease release of refined chemicals ≥0.5m3 or 500 liters Any release of H2S gas of any volume at any concentration Any volume of natural gas where the volume exceeds 30,000 m3, the release is within a road or railway right of way or within 150m of any dwelling 		

Agency	Reporting	Location	Phone Number
Local Authority			
RM of Arlington No. 79			
RM of Auvergne No. 76			
RM of Bengough No. 40			
RM of Big Stick No. 141			
RM of Bone Creek No. 108			7
RM of Carmichael No. 109			-72
RM of Deer Forks No. 232			
RM of Enterprise No. 142	Report any incidents that effect the agencies area of jurisdiction immediately at the first available opportunity		
RM of Excel No. 71	jurisdiction initilediately at the first available opportunity		- 4
RM of Fox Valley No. 171			
RM of Grassy Creek No. 78			
RM of Lake Alma No. 8			- 11
RM of Lake of the Rivers No. 72			
RM of Laurier No. 38			
RM of Piapot No. 110			

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Agency	Reporting	Location	Phone Number
RM of Pinto Creek No. 75			
RM of Souris Valley No. 7			
RM of Stonehenge No. 73			
RM of Surprise Valley No. 9	Report any incidents that effect the agencies area of		
RM of The Gap No. 39	jurisdiction immediately at the first available opportunity		
RM of Willow Bunch No. 42			
RM of Wise Creek No. 77			
RM of Wood River No. 74			
Health Authority			
Saskatchewan Health	Report incidents that effect the health or environmental health of individuals immediately at the first available		
Authority	opportunity		

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2.5.3 Additional Government Contacts

Agency	Reporting	Location	Phone Number
Saskatchewan Public Safety Agency	If required, as a courtesy, to report a spill, gas release, fire/explosion, or when there is impact to the public		
Saskatchewan Environment – Spill Control Centre	To report a spill, gas release, fire/explosion, or when there is impact to the public		
Saskatchewan Environment – Firewatch	To report a wildfire		
Saskatchewan Highways and Infrastructure	To report when a single or double numbered highway is or may be impacted by a spill, release, or fire/explosion		
WorkSafe Saskatchewan – OHS Division	 To report danger to a worker from a spill, release or fire/explosion To report a fatality (within 24 hours) or a serious injury (within 72 hours) 		
Saskatchewan Workers' Compensation Board (WCB)	To report a fatality (within 24 hours) or a serious injury (within 72 hours)		
Sask 1 st Call	As a courtesy, to report a spill or gas release		
Dept. of Fisheries and Oceans (DFO)	To report a spill or gas release impacting waterways		
Transport Canada – Navigable Water / Office of Boating	To report a spill or gas release impacting waterways		
NAV Canada – Customer Service Centre	To request a Notice to Airmen (Closure of Air Space) in consultation with the appropriate government authorities		
Canadian Transport Emergency Centre (CANUTEC)	To report a transportation related incident including a spill, release or fire		

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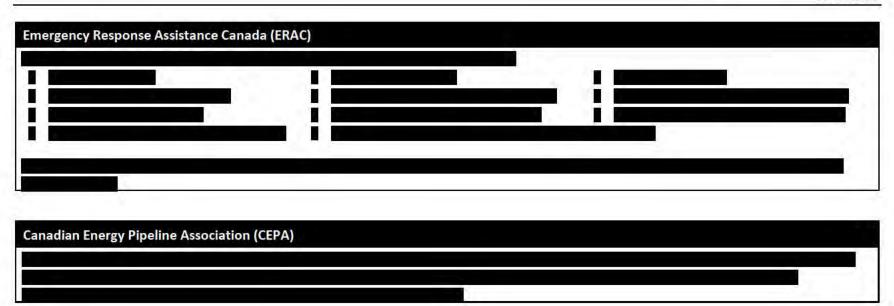
Agency	Reporting	Location	Phone Number
Canadian Coast Guard – Search and Rescue	To request search and rescue assistance		

2.5.4 Mutual Aid Groups

Oil Spill Contingency Groups						
Area	City/Town	Title	Name	Company	Phone Number	

ergency Reporting Line	ERAP Plan Reference		
			Ŷ

Version Date: December 2020



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2.5.5 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.

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Number
oles and Responsibiliti	es			
unicipal Resources				

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Numbe
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Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Numbe
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Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Numbe
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Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Numbe
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unicipal Resources				
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Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Number
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11				
n —				
Municipal Resources				
Reception Centre(s)	_			_
Emergency Operations	Centre(s)			
	14. 6. 1.1			
Description of Drinking	Water Systems and oth	ner important features		

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Number
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unicipal Resources				

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Version Date: December 2020

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unicipal Resources				

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24-Hour Phone Numbe
oles and Responsibiliti	ies			
unicipal Resources				

VANTAGE SYSTEM

EMERGENCY RESPONSE PLAN

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### 2.5.6 Emergency Response Support Services

Vendors that provide support services during regular operations may also be utilized during an emergency; however, contact information for those services is maintained outside of this plan.

Company Name	Equipment	Location	Main Number	24-Hr Number
Accommodations				
Aircraft Fixed Wing				*
Air Monitoring				
Backhoes				

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Company Name	Equipment	Location	Main Number	24-Hr Number
Backhoes Cont'd.	11/1/11/11			
		*		
		4	r	
Communications				
			+	
Construction Equipment				_
Cranes				
Electrical Contractors				
Electrical Contractors		i	7	
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Company Name	Equipment	Location	Main Number	24-Hr Number
Electrical Contractors Cont'd.				
Emergency Management Support				
Environmental Contractors				
		,	·	

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Company Name	Equipment	Location	Main Number	24-Hr Number
Environmental Contractors Cont'd.				
		·	·	3
Fire Fighting				
Flare Stack (Portable)				
General Contractors		*	*	*
Jeneral Contractors				

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Company Name	Equipment	Location	Main Number	24-Hr Number
elicopters / Aerial Surveillance	189			
ledia		*	*	
peline Inspection				
			+	

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Company Name	Equipment	Location	Main Number	24-Hr Number
Railways	1577	***************************************		
Pantal Communica			-	
Rental Companies		-		
Spill Response				
opiii kesponse				

Company Name	Equipment	Location	Main Number	24-Hr Number
Spill Response Cont'd.				
Supply Stores		4	,	
Supply Stores		1		
Welders				

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Company Name	Equipment	Location	Main Number	24-Hr Number
Wildlife Management Contractors	100.77			
		-	4	
/ildlife Rehabilitation	The state of the s			
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Vendors that provide support services during regular operations may also be utilized during an emergency; however, contact information for those services is maintained outside of this plan.

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#### 2.5.7 Reception Centres

To ensure a coordinated response, the Reception Centre(s) is ideally activated jointly by Pembina Pipeline 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.

Name	Location	Amenities	Main Contact
Al .			

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### 2.5.8 School Districts

Name	City / Town	Contact	Phone
Chinook School District 211			
Holy Trinity R.C.S.S.D. No 22			
Prairie South School District 210			
South East Cornerstone School District 209			
Region Scolaire de La Vieille DS 310			
School Board – Roles & Responsibilities	Ta i		

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### 2.6 Montana

### 2.6.1 Emergency Services

Name of Organization	Address	City / Town	Phone Number
Police			
Ambulance			
Hospitals			77.100000000000000000000000000000000000

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Name of Organization	Contact	Title	Training	Phone Number	
Sheridan County Fire Departments					
		ė.			
	-				

All of the above Fire Departments are all able to assist Pembina's Pipelines with the following support:

- Notify Residents and/or evacuate the hazard area
- If safe to do so, contain, prevent and extinguish secondary fires (e.g. grass fires) that may result
- Provide roadblock assistance

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#### 2.6.2 Government Contacts

Note: There are no surface developments within the EPZ/Buffer Zones in Montana.

Agency	Details	Phone Number
US Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA)		
PHMSA –Pipeline Safety Western Region office (Montana)		
US Environmental Protection Agency (EPA) 24-Hr National Response Center (NRC)		
US Environmental Protection Agency EPA Region 8 (Montana & North Dakota)		
Montana Disaster and Emergency Services (DES)		
Federal OSHA Region 8 (Montana)		

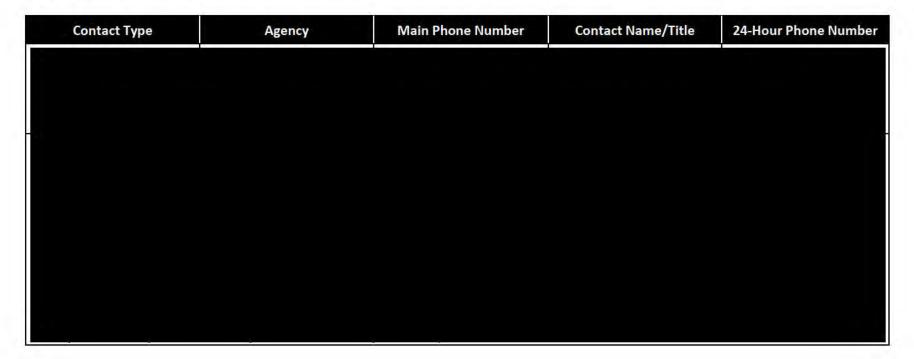
Version Date: December 2020

Agency	Details	Phone Number
Sheridan County Disaster Emergency Services (DES)		
Montana Department of Transportation		

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### 2.6.3 Government Agency Mutual Aid

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



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Contact Type	Name	Main Phone Number	Contact Name / Title	24-Hour Phone Number

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### 2.6.4 Emergency Response Support Services

Vendors that provide support services during regular operations may also be utilized during an emergency; however, contact information for those services is maintained outside of this plan.

Company Name	Equipment	Location	Main Number	24-Hr Number
Emergency Management Support				
Spill Response				
Wildlife Management Contractors				
		7		
			4	

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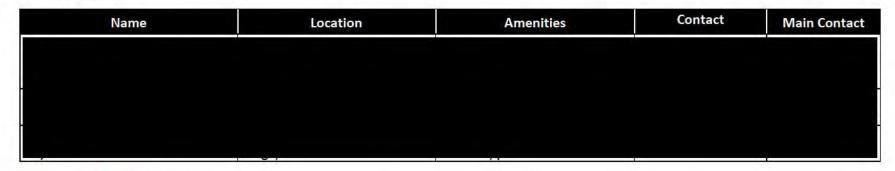
Company Name	Equipment	Location	Main Number	24-Hr Number
Media	1772			
		T-		

Vendors that provide support services during regular operations may also be utilized during an emergency; however, contact information for those services is maintained outside of this plan.

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#### 2.6.5 Reception Centres

To ensure a coordinated response, the Reception Centre(s) is ideally activated jointly by Pembina Pipeline 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.



#### 2.6.6 School Districts

Name	City / Town	Contact	Phone
heridan County School District (Plentywood)			
Westby School District			
chool Board - Roles & Responsibilities			
bol Board - Koles & Responsibilities			

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#### 2.7 North Dakota

#### 2.7.1 Emergency Services

All 911 calls for Divide County are received, and responders dispatched by North Dakota State Radio in Bismarck. The Divide County Emergency Services office handles all requests for 911 addresses for rural and municipal locations within the county.

Version Date: December 2020

	Name of Organization	Address	City / Town	Phone Number
Police				_
Sheriff Off	ice - Divide County			
Sheriff Off	ice - Williams County			
Ambuland	e			
		4		
Hospitals	/ Medical Centres			

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Name of Organization	Contact	Title	Phone Number						
ire, EMS & Emergency Management Departme	nts								
Williams County									

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Name of Organization	Contact	Title	Phone Number
EMS & Emergency Management Departme	nts		
	Divide County		

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#### 2.7.2 Government Contacts

Agency	Details	Phone Number
US Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA)		
PHMSA –Pipeline Safety Central Region Office (North Dakota)		
US Environmental Protection Agency (EPA) 24-Hr National Response Center (NRC)		
US Environmental Protection Agency EPA Region 8 (Montana & North Dakota)		
North Dakota Department of Emergency Services (NDDES)		
Montana Disaster and Emergency Services (DES)		
Federal OSHA Region 8 (North Dakota)		

Agency	Details	Phone Number
North Dakota Department of		
Environmental Quality (DEQ)		
North Dakota Department of Health Emergency Preparedness and Response		
Divide County Emergency Services		
North Dakota Highway Maintenance		

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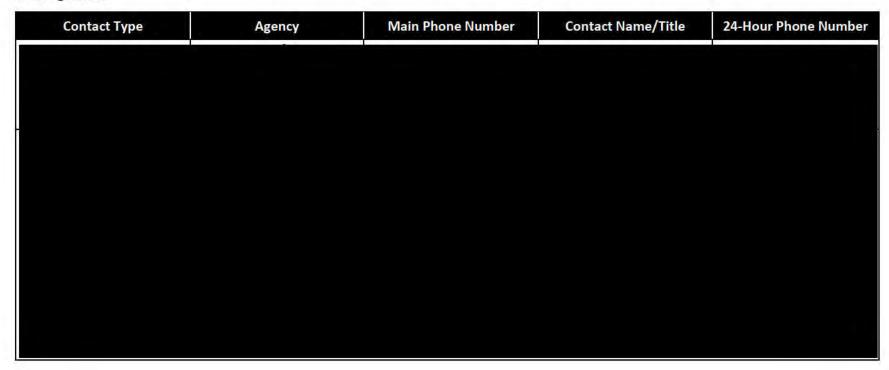
Agency	Details	Phone Number
Divide County 911		
Williams County		
Emergency Management Department		
Williams County 911 Dispatch		

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#### 2.7.3 Government Agency Mutual Aid

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



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Contact Type	Agency	Main Phone Number	Contact Name/Title	24-Hour Phone Number

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#### 2.7.4 Emergency Response Support Services

Vendors that provide support services during regular operations may also be utilized during an emergency; however, contact information for those services is maintained outside of this plan.

Company Name	Equipment	Location	Main Number	24-Hr Number
Accommodations				
A		1 07		
Aircraft Fixed Wing				
		A	;	
Air Monitoring		T.		
	2 22			
Communications				
Cranes				
		,,,	<u> </u>	

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Company Name	Equipment	Location	Main Number	24-Hr Number
lectrical Contractors				
are Stacks (Portable)		<b>*</b>	-0	
are stacks (Fortable)			4	
		<u>.</u>		
eneral Contractors		Ţ.	-	
	θ, ,	4	4	
elicopters / Aerial Surveillance				
		A		

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Company Name	Equipment	Location	Main Number	24-Hr Number
ine Locators			7	
*		+	+	
Media				
Pipeline Inspection			*	
Railways				
		**		

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Company Name	Equipment	Location	Main Number	24-Hr Number
Rental Companies	141011111111111111111111111111111111111			
Rental Companies Cont'd.			•	
			7	
Spill Response	* *			
			,	
Supply Stores			1	į.

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Company Name	Equipment	Location	Main Number	24-Hr Number
Welders	1919			
			()	1
Wildlife Rehabilitation				
			7	
Wildlife Management Contractors				
			2.	4

Vendors that provide support services during regular operations may also be utilized during an emergency; however, contact information for those services is maintained outside of this plan.

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#### 2.7.5 Reception Centres

To ensure a coordinated response, the Reception Centre(s) is ideally activated jointly by Pembina Pipeline 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.

Name	Location	Amenities	Contact	Phone Number
				3

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#### 2.7.6 School Districts

Name	City / Town	Contact	Phone
Divide County School District			
Tioga 15 School District			
Williston Public School District #1			
School Board - Roles & Responsibilities			

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### 3.0 TECHNICAL DATA

### 3.1 Vantage Pipeline System

#### 3.1.1 Alberta/Saskatchewan

PL License Segment	Map#	Start	То	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	EPZ (m)
	ntage – BV	27 to Empress Pump Station									
280062-1	1			0.61	0	HVP	273	6			995
280062- 1/3	1-2			25.11	0	HVP	273	6			995
280062-3	2-4			29.22	0	HVP	273	6			995
280062-3	3-5			20,36	0	HVP	273	6		СС	995
280062-3	5			22.88	0	HVP	273	6			995
280062-3	5-7			26.35	0	HVP	273	6		СС	995
280062-3	7-8			22.47	0	HVP	273	6		CC.	995
280062-3	8-9			22.10	0	HVP	273	6		сс	995
NPS 10 Vai	ntage – Ass	inibola Pump Station to BV 27	*								
280062-3	8-10			22.43	0	HVP	273	6		CC.	995
280062-3	9-11			24.62	0	HVP	273	6		сс	995
280062-3	10-11			24.99	0	HVP	273	6		СС	995
280062-3	11-12			26.45	0	HVP	273	6			995
280062-3	12-13			21.21	0	HVP	273	6			995

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PL License Segment	Map#	Start	То	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	EPZ (m)
280062-3	13-14			26.40	0	HVP	273	6		СС	995
280062-3	14-15			28.06	0	HVP	273	6		RC, CC	995
280062-3	15-16			21.16	0	HVP	273	6			995
280062-3	15-16			18.21	О	HVP	273	6			995
NPS 10 Vai	ntage – BV 10	To Assiniboia Pump Station									
280062-3	16-17			24.46	0	HVP	273	6			995
280062-3	17-18			20.24	0	HVP	273	6			995
280062-3	18-19			25.87	0	HVP	273	6			995
280062-3	19			20.62	0	HVP	273	6			995
280062-3	19-20			22.02	0	HVP	273	6			995
280062-3	20-21			17.97	0	HVP	273	6			995
280062-3	21-22			28.99	0	HVP	273	6			995
NPS 10 Var	ntage – Tioga t	to BV-10									
280062-3	22-23			30.47	0	HVP	273	6			995
280062-3	23-24			9.11	0	HVP	273	6			995

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### 3.1.2 North Dakota

PL License	Map #	Start	То	Length (miles)	Status	Sub	OD (in)	Wall (in)	MOP (psi)	Enviro Crossing	EPZ (yards)
OC-059	24			7.97	0	HVP	10	0.24			1088
OC-059	24			6.74	0	HVP	10	0.24			1088
OC-059	24-25			5.23	0	HVP	10	0.24			1088
OC-059	25-26			9.21	0	HVP	10	0.24			1088
OC-059	25-27			13.17	0	HVP	10	0.24			1088
OC-059	27-28			17.83	0	HVP	10	0.24			1088
OC-059	28-29			11.96	0	HVP	10	0.24			1088
OC-059	29			7.83	0	HVP	10	0.24			1088

#### 3.1.3 North Dakota—West Spur Lateral

PL License	Map #	Start	То	Length (miles)	Status	Sub	OD (in)	Wall (psi)	MOP (kPa)	Enviro Crossing	EPZ (yards)
NPS 8 Wes	st Spur Lateral										
OC-059	25-26 & 30			13.01	0	HVP	8	2160			809
OC-059	26 & 30			9.22	0	HVP	8	2160		СС	809
OC-059	30-32			24.49	0	HVP	8	2160		CC	809

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#### 3.1.4 Valve Listing



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Name	LSD	Latitude	Longitude	Туре	Length (m)

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Name	LSD	Latitude	Longitude	Туре	Length (m)

#### **VANTAGE HVP SYSTEM**

#### **EMERGENCY RESPONSE PLAN**

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### 3.2 Empress Pipeline System

PL License	Map#	Start	То	Length (km)	Status	Sub	OD (in)	Wall (psi)	MOP (kPa)	Enviro Crossing	EPZ (m)
NPS 10 Em	press to Burstall	Caverns									
280257-1	Empress			12.03	0	NGL	273.1	6.35			900
280257-2	Empress			0.02	0	NGL	273.1	6.35			900
27999-1	Empress			12,9	0	NGL	273.1	6.35			900

### 3.2.1 Valve Listing

Name	LSD	Latitude	Longitude	Type	Length (m)

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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.

Equipment for the Empress HVP Pipeline operating area is located at the Empress NGL Facility located at 16-02-020-01 W4M:

Category/Description	Quantity
Plant Site	
Two-head monitor (O ₂ , LEL, Percent Gas)	2
Basket stretcher	1
Spine board	1
Emergency folding stretcher	1
OH&S First Aid Kit (#3)	3
Safety harness c/w shock absorbing lanyards	12
Scott 2.2 backpacks	2
SCBA	2
Portable breathing air station c/w regulator and 100 ft hose.	1
30 lb Purple K portable extinguishers	72
20 lb CO2 extinguisher	15
150 lb Wheeled dry chemical extinguishers	8
Plant Site - Mobile	
1/2 ton 4x4 truck	1
Skid steer	1
Utility tractor	1
Trailer-mounted welding rig	1
Utility trailer	1
4000-watt generator	1
Heater	1

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Category/Description	Quantity
Shop Safety Cabinets	
Ignition Equipment	2
Roadblock kits	2
MCC 2	
Ignition Equipment	1

In addition, all pipeline Operators responding to a pipeline incident for the Vantage HVP pipeline systems as a first responder are equipped with the following equipment in their vehicle.

Description	Quantity	Inspection Frequency
Gas detector	1	Annual
Safety vests	1	Annual
Flashlight	1	Annual
Roll "DO NOT ENTER" tape	1	Annual
Emergency Manual	1	Annual
Fire retardant clothing (Required work wear)		Annual
Set of keys for Block Valve and Pump Station access	1	Annual
Fire extinguisher	1	Annual
Standard First aid kit	1	Annual
Set of assorted hand tools	1	Annual
Laptop computer with air card	1	Annual
Portable Spot Light	1	Annual
Binoculars	1	Annual
Road Flares/Reflectors	1	Annual
Flare pistol	1	Annual
Winter wear (Required work wear in winter)		Annual
Magnetic amber flashing light	1	Annual

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

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#### 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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#### 4.4 Service Providers on Retainer

Pembina maintains a contract with SWAT Consulting Inc. (SWAT) through a Retainer Fee Agreement to provide the following services for Pembina along the Vantage and Empress Pipeline Systems, in Alberta, Saskatchewan, Montana & North Dakota.

- Provide 24-hour / 365 days per year Emergency Response Immediate Call Out
  Service Coverage via the SWAT's manned & dedicated

  American contact number.
- Upon notification, SWAT will be responsible and accountable to dispatch an
  appropriately trained and qualified Response Manager to occupy the role of Incident
  Commander (IC). Based on the event, SWAT may decide to dispatch additional
  personnel to fill positions within the ICS organization, as required.
- To ensure SWAT has resources to respond to a release, a Purchase Order (PO) will annually be generated for both Canada and the USA for SWAT to work against.
- Additional response personnel, equipment and services are available from SWAT on an as required basis and as prescribed by the Pembina. These items include but are not limited to the following:
  - Response Vessel Coordinators & Supervisors
  - Response Coordinator & Technicians
  - Incident Command System 400 Level Trained Responders
  - Aquatic & Wildlife Scientists
  - 15' 22' Response Vessels (Jet & Airboats)
  - Lake & River Containment Boom
  - Recovery Skimmers
  - Wildlife Deterrents
  - Portable Vacuum Equipment
  - Pumps and Product Transfer Equipment
  - Communication and Telemetry Equipment
  - Aquatic Monitoring and Subsurface Aquatic and Sediment Sampling Equipment
  - UTV/ATV Vehicles
  - Onsite GIS Drafting, and UAV (Drone) Real-time Imagery Mapping

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#### 4.4.1 US Vantage Pipeline Activation/Notification (US Operations Only)

Incident identified and confirmed by Pembina employee:

- Contact Emergency Services (Fire, Police, Ambulance), as required
- Contact Pembina Sherwood Park Control Centre (SPCC) at and provide details of the incident
- SPCC to contact Field On-call
- Field On-call to determine if ICS response is required. If yes, Field on-call to contact SWAT at and transfer IC role to them.
- SWAT to establish time for Activation Team conference call and execute IC roles as per EM Activation Process and Emergency Response Plan.

Incident reported to Pembina 24-hour emergency number from Public, Emergency Services, Regulator or SCADA monitoring:

- SPCC to contact Field On-call to verify event
- Field On-call to Contact Emergency Services (Fire, Police, Ambulance), as required
- Field On-call to determine if ICS response is required. If yes, Field on-call to contact SWAT at an and transfer IC role to them.
- SWAT to contact Pembina Sherwood Park Control Centre (SPCC) at and provide details of the incident.
- SWAT to establish time for Activation Team conference call and execute IC roles as per EM Activation Process and Emergency Response Plan.

#### 4.4.2 First Responder Liaisons

SWAT will also provide services for liaising with local First Responders, in addition to efforts undertaken by Pembina.

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### 5.0 TRANSPORTED PRODUCTS

### 5.1 Product Handling and Storage

General characteristics of product(s) transported are listed below. For a complete Safety Data Sheet (SDS) including first aid, firefighting measures, and accidental release response, refer to Pembina's SDS database on Pembina's internal intranet site, The Pipeline.

Product	Hazards	Handling and Storage	
Ethane	<ul> <li>Colourless, compressed gas with slight hydrocarbon odour</li> <li>Extremely flammable</li> <li>Easily ignited by heat, sparks or flames</li> <li>Will form explosive mixtures with air</li> <li>Slightly soluble in water</li> <li>Vapours from liquefied gas are initially heavier than air and spread along the ground</li> <li>Vapours may travel to source ignition and flash back</li> <li>Cylinder exposed to fire may vent and release flammable gas through pressure relief valves</li> </ul>	Wear protective gloves, protective clothing and eye protection     Do not breathe gas     Keep away from heat, sparks, open flames, and hot surfaces     Store in well-ventilated area     Store away from incompatible materials     Protect from sunlight     Do no extinguish a leaking gas fire unless the leak can be stopped	

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#### 6.0 AREA STAKEHOLDER AND MAPS

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

#### Confidential Listings

Resident/Business listings for surface developments located within the EPZ for the HVP Pipeline System are separated by map area. Only select copies of the plan will contain the surface development listings as this data is confidential and is to be stored in a secure location.

Surface development listings are sorted by geographical location from south to north (i.e., meridian, township, range, section, letter ID).

Example

Surface developments within the EPZ with no letters or numbers on the map are located on inset maps and are sorted geographically and then numerically from smallest to largest. Example

W4	53	26	16	WL1
W4	53	26	20	WL2
W4	53	26	17	WL3

Note: In some cases, due to the number of maps and/or records for surface developments, this information may be located in a separate binder

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Vantage Overview Map

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