



EASTERN AREA PIPELINE EMERGENCY RESPONSE PLAN

EMERGENCY RESPONSE PLAN Corporate Toll Free 24-Hour Emergency 1-866-875-2554

Note:

Within the ERP, any information that is blacked out has been deemed sensitive and removed from the published redacted version as per the Canada Energy Regulator (CER) Order MO-006-2016. For additional information please contact <u>emergency.management@plainsmidstream.com</u>



Revision History

AMENDMENT PROTOCOL

This Emergency Response Plan will be reviewed, validated and updated as per regulation. Additional updates may be distributed if an identified change is deemed critical or upon the request of the Lead Agency.

All amendments will be distributed to each individual plan holder who will be responsible for incorporating them as they are received. A record of all amendments will be maintained utilizing the Revision History.

If you detect an error, or subsequent to the latest revision date, become aware of any changes to information, please complete an Amendment Request Form found in Section 7: Reference Materials and submit to <u>emergency.management@plains.com</u>.

Date	Summary of Revision	Section/Pages
October 2023	Core	All references of Incident Support Team (IST) changed to Corporate Crisis Management Team (CCMT). Commitment Statements: Removed H&S Commitment Statement, EPP Commitment Statement, EM Commitment Statement, and Security Mgmt Commitment Statement. Revision History (AII) Distribution List – Added an additional field copy. Table of Contents (AII) Manual Instructions (Pg 1 of 1) – Changed IST to CCMT. Section 0: Overview (AII) – Changed IST to CCMT, removed reference of Emergency Response Tactical Plans (ERTP). Section 1.0: Initial Response (AII) – Changed IST to CCMT. Section 2.0: Roles and Responsibilities (AII) – Revised TOC, Changed IST to CCMT, added Corporate Strike Team (CST), all flow charts revised, revised several role names throughout to reflect IMT and CCMT structure. Section 3.0: (Pg 3-10) – Updated references to IMT and clarification on referring to IMH. Section 4.0: Incident Specific Measures (Pg 4-3) – Revised reference of ERAC to 8.7.1. (Pg 4-9 to 4-11) Additional content regarding Vapour Cloud procedures added. (Pg 4-23) – Removed reference of 8.1 Security Threat Response Plan Standard. Section 5.0: Communications and Media (Pg 4-3) – Reference of ERAC section revised. (Pg 5-5 to 5-7) Revised PMC's email. Section 6.0: Forms (Pg 6-1, ICS 207 IMT, ICS 207 CCMT) Changed IST to CCMT. Section 7.0: Reference Materials (AII) – Revised TOC, Email address revised in Amendment Request Form, changed IST to CCMT throughout section, added CCMT, CST and IRG to acronyms, removed references of ERTP.
	Section 8.0: Government Agencies and Local Authorities	(All) – Government agencies and local authorities revised with new regulatory information, company name changes, and new government notification flowcharts. Updated government agency roles and local authority mutual understandings
	Section 9.0: Area Specific Information	Section 9.1 -9.9 (All) – Support Services verified and revised internally by PMC. Section 9.10 – 9.14 (All) - Calc tables revised, public consultation completed, and pamphlet revised.



Date	Summary of Revision	Section/Pages
October 2022	Core	Revision History Distribution List – Internal copies revised to only consist of 2 Calgary EOC copies and 5 field office copies. Government agency recipients verified. Table of Contents (All) – Section 2 - Removed ICS Planning, renumbered IMT and IST, added reference to PMC Incident Management Handbook (IM Handbook) revised page numbers throughout all Sections. Manual Instructions (Pg 1 of 1) – Revised Section 2 and 6. Section 0: Overview (Pg 0-2) – Revised government agency names (MB). Section 1.0: Initial Response (All) – Revised TOC, Pg 1-3 Initial Response Checklist, Pg 1-4 Security Response Checklist replaced Initial Response Checklist, Pg 1-4 Security Response Checklist replaced Initial Response Actions. Section 2.0: Roles and Responsibilities (All) – Revised TOC, Removed ICS Planning Cycle and IMT and added reference to IM Handbook (IMH), replaced references of Field Operators Guide (FOG) with IMH. Section 4.0: Incident Specific Measures (All) – Revised TOC, removed 4.1 Function Support Plans specific contact information, references of eStream changed to MyPlains, revised STRP – Figure 1 STRP Activation – Flowchart, removed Security Incidents Response Guidelines – Hostage, removed note regarding additional FSPs. Section 5.0: Communications and Media (All). Section 5.0: Communications and Media (All). Section 5.0: Communications and Media (All). Section 7.0: Reference Materials (All) – Revised TOC, revised the following forms: Security Threat Assessment Form, ICS; 201, 202, 211e, 211p, 214a, 234 and added ICS 214. Section 7.0: Reference Materials (All) – Revised TOC, revised link for Transport Canada Guide for Reporting Dangerous Goods Incidents, removed specific references to Section 9 page numbers, removed references to Section 2 IMT and added reference to IMH, removed Canadian Energy Pipeline Association (CEPA), changed references of FOG to IMH.
	Section 8.0: Government Agencies and Local Authorities	(AII) – Government agencies and local authorities revised with new regulatory information, company name changes, and new government notification flowcharts. Updated government agency roles and local authority mutual understandings
	Section 9.0: Area Specific Information	Section 9.1 -9.9 (All) – Support Services verified and revised internally by PMC. Section 9.10 – 9.14 (All) - Calc tables revised, public consultation completed, and pamphlet revised.



Date	Summary of Revision	Section/Pages	
September 2021	Updated Core	Revision History Distribution List Emergency Management Commitment Statement Security Management Commitment Statement Health & Safety Commitment Statement Environmental Protection Commitment Statement Table of Contents (i-iv) Section 0: Overview - ALL Section 2.0: Roles and Responsibilities – ALL Section 2.0: Roles and Responsibilities – ALL Section 3.0: Responder Safety and Public Protection - ALL Section 4.0: Incident Specific Measures (Pgs. 4-3 and 4-5) Section 5.0: Communications and Media – ALL Section 6.0: Forms (TOC, Pgs. 6-1 to 6-8, with the addition of WCSS Ice Safety Plan) Section 7.0: Reference Materials (Pgs. 7-25 and 7-47)	
	Updated government agency roles and local authority mutual understandings	Section 8.0: Government Agencies and Local Authorities - ALL	
	Updated area specific information	Section 9.0: Area Specific Information – ALL All confidential information for Section 9 has been removed.	
March 2021	Updated the CER Incident Number from 403-807-9473 to 403-299-2773	Section 9.0: Area Specific Information - (Pg. 9-50)	
July 2020	Updated Core	Revision History Distribution List Operations Policy Security Management Commitment Statement Health & Safety Commitment Statement Environmental Protection Commitment Statement Table of Contents (i-iv) Section 0: Overview (Pgs. 0-1 and 0-2) Section 1.0: Initial Response – ALL Section 1.0: Initial Response – ALL Section 2.0: Roles and Responsibilities IMT Section – 2.12 Legal Officer (Pg. 2-29 and 2-30) Section 4.0: Incident Specific Measures - ALL Section 6.0: Forms (Table of contents i-ii, Pgs. 6-1 to 6-6) Section 7.0: Reference Materials - ALL	
	Updated government agency roles and local authority mutual understandings	Section 8.0: Government Agencies and Local Authorities - ALL	



Date	Summary of Revision	Section/Pages	
	Updated area specific information	Section 9.0: Area Specific Information – ALL EAP Overview Wall Map Carried forward from 2019.	
	Updated Core	Section 2.0: Roles and Responsibilities – ALL Section 7.0: Reference Materials - ALL	
August 2019	Updated government agency roles and local authority mutual understandings	Section 8.0: Government Agencies and Local Authorities - ALL	
	Updated area specific information	Section 9.0: Area Specific Information - ALL	
	Updated Core	Section 0.0 - 7.0 - ALL	
September 2018	Updated government agency roles and local authority mutual understandings	Section 8.0: Government Agencies and Local Authorities - ALL	
	Updated area specific information	Section 9.0: Area Specific Information - ALL	
	Updated ERP to new format	All (New Format)	
	Updated Corporate policies	Foreword	
October 2017	Updated government agency roles and local authority mutual understandings	Section 8.0: Government Agencies and Local Authorities - ALL	
	Updated area specific information	Section 9.0: Area Specific Information - ALL	

NOTE: During each regulated annual ERP update, all revisions (including dates) are captured in the above Summary of Revision table. Beginning in 2020, PMC will be removing revision dates from footers on every page.



Distribution List

Plan No.	Recipient	Location	ERP Type
Plains Midstr	eam - Corporate		
Plains Midstr	com Field	1	
Piallis ivilusti	ean – Field	1	
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Government	Agencies and Local Authorities		1
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Operations Policy

Rev No.: 2.0



1 Policy Statement

Plains commits to conducting our operations in a manner that protects people and the environment. We are committed to the safety and security of the public, our employees, and contractors; the protection and stewardship of the environment, including property; and the safety, security, and integrity of all Plains assets throughout the entire asset lifecycle including design, construction, operation, and abandonment.

Our commitment to this Policy is demonstrated by:

- The Plains Code of Business Conduct with our core values of Safety and Environmental Stewardship; Respect, Fairness, and Inclusion; Teamwork; Ownership and Accountability; Ethics and Integrity; and Entrepreneurship and Innovation.
- Our goals for the prevention of ruptures, releases, fatalities, and injuries; for our rapid and effective response to incidents and emergency situations; and our drive to zero incidents.
- The sustainment and continuous improvement of our Operations Management System (OMS), including but not limited to Asset Integrity, Health and Safety, Damage Prevention, Physical Security, Environmental Protection, and Emergency Management.

All Plains personnel are accountable to follow this Policy.

2 Expectations & Accountabilities

Each Plains operational leader is expected to:

- Foster a culture that creates an environment of trust and demonstrates safety and continuous learning.
- Reinforce expectations that employees follow programs, standards, processes, and procedures, including but not limited to Plains Life Rules.
- Reinforce expectations that employees identify risk and take action to prevent an incident.
- Ensure the OMS and programs, processes, and procedures are developed, implemented, and sustained.
- Protect employees and those who work on behalf of Plains from reprisal for stopping work if an unsafe act or condition is identified or for reporting incidents, near misses, hazards, and potential hazards.

Plains personnel are expected to:

- Follow programs, processes, and procedures including but not limited to Plains Life Rules.
- Identify risk and take action to prevent an incident.
- Stop work without fear of reprisal if an unsafe act or condition is identified.
- Report incidents, near misses, hazards, and potential hazards.

3 Approvals

The following signatories approve this Policy.

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Chris R. Chandler Chief Operating Officer Plains All American Pipeline, L.P.

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Dean Liollio President and Accountable Officer Plains Midstream Canada ULC

Last Approved: 01/01/2023

All printed versions of Plains documentation are considered uncontrolled. To ensure current and approved revision of this document, users should compare the revision number and approval date to the official document within the library.



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8.7 Mutual Aid

SECTION 9: AREA SPECIFIC INFORMATION

NOTE: This section will vary based on the area and operations associated with the ERP. Refer to the Area Specific Information tabs for more details.



Manual Instructions

How to Use the Manual

This manual is arranged with the company response personnel in mind. The first eight sections are what form the PMC Core Emergency Response Plan (Core ERP) and are consistent across all PMC operations and associated ERPs. Sections 8 and 9 contain all area and/or site specific information to each ERP.

Section 0 – Overview

An introduction to the plan that outlines the Emergency Management Program and the emergency response framework.

Section 1 – Initial Response

Provides an Initial Response Checklist to initiate an incident response and activate the Incident Management Team while considering the safety of responders, workers and the public.

Section 2 – Roles and Responsibilities

Outlines the PMC response framework for Incident Management Team (IMT) and Corporate Crisis Management Team (CCMT). It contains roles and responsibilities checklists for all possible CCMT positions. For more information on specific IMT and CCMT roles, refer to the Plains Incident Management Handbook (IMH).

Section 3 – Responder Safety and Public Protection

Processes and considerations to protect responders and to determine the safest way to protect the public during an incident.

Section 4 – Incident Specific Measures

Information and procedures specific to various identified incident types. Note that these are not Standard Operating Procedures and outline general guidelines emergency responders to consider.

Section 5 – Communication and Media

Provides an overview of the Crisis Communications Manual and outlines protocol for emergency communications and general media interactions.

Section 6 – Forms

Includes all forms required in an emergency (Government First Call, Executive Update Form, AER Release Reporting Form, Security Threat Assessment, Incident Command System, Public Protecting Forms and WCSS)

Section 7 – Reference Material

General ERP related information including: regulatory references, plan maintenance, acronyms, glossary terms, and product characteristics.

Section 8 – Government Agencies and Local Authorities

Outlines the notification requirements and contains the roles and responsibilities for lead and supporting agencies that are specific to the ERP. Also includes the roles and responsibilities for local/regional authorities and mutual aid.

Section 9 – Area Specific Information

Outlines emergency response information specific to the area and operations. This includes: contact information, maps, technical data, response equipment, lead agencies, support services and confidential information.



Core Emergency Response Plan

SECTION 0: Overview

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SECTION 0: Overview

0.1 Introduction

Plains Midstream Canada (PMC) has identified the Core Emergency Response Plan (Core ERP) as a critical component of the Emergency Management Program (EMP). The EMP has been designed, using the four pillars of emergency management, to meet the need to anticipate, prevent, manage, and mitigate conditions during an emergency that could adversely affect the safety of the public, responder, property, and the environment. The Four Pillars of Emergency Management (EM):

Prevention & Mitigation	Preparedness	Response	Recovery
Day to day functions at PMC such as Public Awareness, Damage Prevention, Asset Integrity, Health and Safety to take the appropriate means to avoid incidents and/or lessen their impacts.	Emergency Management core functions that continue on a day-to-day basis such as Hazard and Risk Assessments, ERP Updates, Training and Exercises.	Mitigation measures that are performed during emergency responses to minimize the impacts to the public and environment.	Functions to return environment, communities and business back to normal after an incident. Including remediation, investigation and restoration.
[/]	L]
Day-to-Day Operation/ Normal Operations Conditions		Abnormal or Ups	et Conditions

As part of the EMP, PMC requires the development of Emergency Response Plans (ERP) focused around the protection of employees, the public, the environment, company assets and reputation. Each ERP consists of two major components and is designed for a particular geographical region, pipeline system and/or critical facility/site.

- 1. Corporate (Core) ERP Comprised of Sections 0 through 7 that outline PMC's emergency response framework and allows for a consistent approach to all emergencies company wide.
- 2. Area/Site Specifics Comprised of Sections 8 and 9 that outline all information specific to the ERP including all applicable federal (including ECCC E2) and/or provincial regulatory requirements, outlining applicable assets/operations, and identifying local hazard/response considerations.

A key component for the development of ERPs is the EM consultation program the contact of impacted stakeholders. The EM consultation program consists of the following:

- Public consultations
- Local authority, indigenous community, first responder, and government agency consultations
- Area user notifications

The contacted stakeholders are defined by the EPZ and types of consultations / notifications are defined by the applicable regulatory body. All PMC ERPs are directly supported by the PMC Operations Management System (OMS) and guided by the Operations Policy and the Emergency Management Commitment Statement.



In addition to supporting internal PMC systems, the Core ERP is designed to meet and exceed the regulatory requirements set out by the following regulatory agencies and associated regulations:

- Canada Energy Regulator (CER)
 - Onshore Pipeline Regulations (SOR/99-294)
- Alberta Energy Regulator (AER)
 - Directive 071 and 056
- Saskatchewan Ministry of Energy and Resources (ER)
- Manitoba Agriculture and Resource Development (ARD) Petroleum Branch
- Ontario Energy Board (OEB)
- Ontario Ministry of the Solicitor General Emergency Management Ontario (EMO)
- Ontario Technical Standards and Safety Authority (TSSA)
- Canadian Standards Association (CSA)
 - o Z246.2, Z731, Z1600 and Z662
- Environment Canada and Climate Change (ECCC)
 - Canadian Environmental Protection Act Environmental Emergencies (E2)
- Transportation Safety Board (TSB)

0.2 Objective

PMC has developed the Core ERP to assist company personnel respond to emergencies for all operations. The primary objective of the ERP is to clearly define the framework and the tools that facilitate the ability of PMC personnel to respond consistently and effectively to all incidents (operational and non-operational).

The ERP is designed to assist with:

- Activation of the ERP.
- Initial response procedures and tools.
- Internal notification process.
- Incident Command System (ICS) processes and incorporate ICS key principles.
- Response organization and structures.
- Roles and responsibilities checklists for field and corporate level responding personnel.
- Emergency response procedures and guidelines to protect people, the environment and assets threatened in an emergency.
- Notification and communication requirements to all stakeholders (public, government, media, internal, etc.).
- Documentation tools and requirements.
- Fulfill all provincial and federal emergency management regulatory body requirements.
- Required post emergency actions including evaluation and follow up.

In conjunction with the ERP, PMC's adoption and full implementation of the Incident Command System (ICS) ensures that an organizational and systematic response structure will be initiated and established equal to the complexity and demands of an emergency.



0.3 Scope

The PMC Core ERP supports all PMC personnel from field responders on-site that comprise the Incident Management Team (IMT) and Corporate Calgary responders that comprise the Corporate Crisis Management Team (CCMT). It contains the core ERP components, outlined in Sections 1 through 7, that are consistent across all ERPs including area specific. Sections 8 and 9 contain all area and/or site specific information to each ERP.

Section 8 outlines the applicable government agencies, local/regional authority's roles and responsibilities, as well as company-wide and local support agreements with external agencies and mutual aid partners. Section 9 (if applicable) outlines all area specifics including: operations overview, general area overview, contact lists for PMC personnel, external contact lists (government, local authority, first responders, support services, etc.), area user information, site equipment and processes, technical data, maps and confidential resident information.

The PMC Core ERP is guided by the PMC Operations Policy and Emergency Management Commitment Statement and complimented by Functional Support Plans (FSPs). It is aligned with the standards and expectations of first responders, regulators, local authorities and industry partners.

0.4 Emergency Response Framework

0.4.1 Response Principles

- 1. The highest priority is placed on human life (personal, employees, contractors and the public).
- 2. ICS is utilized as the foundation for response to all incidents.
- 3. All responders (field and corporate) are trained to ICS procedures and principles.
- 4. All responders are trained annually via exercises and role/hazard specific training sessions.
- 5. The IMT (field responders) are expected to manage the emergency response with support from the CCMT (corporate responders).
- 6. Responders must 'Get Big Quick' and mobilize as many responders as possible at the onset of an emergency.

0.4.2 Response Organizations

The PMC emergency response framework is comprised of two response organizations that work in conjunction with one another and are in regular communication. Key reporting lines are established between each response organization and communications are encouraged between leadership roles within each.



0.4.3 Incident Management Team (IMT)

- Based in the field at the Incident Command Post (ICP).
- Responsible for managing the emergency response and all field level (tactical) emergency response actions.
- Managed by the Incident Commander and initially comprised of local and nearby area personnel. Other company personnel who are trained to respond may take IMT roles as well as external agencies/company personnel, as required.
- Deputy Incident Commander must be established communicates and report to the Crisis Manager (CCMT) at the EOC.
- IMT leadership is comprised of:
 - Command Staff: Incident Commander, Deputy Incident Commander, Safety Officer, Liaison Officer and Public Information Officer.
 - General Staff: Operations, Planning, Logistics and Finance/Administration Section Chiefs.

0.4.4 Corporate Crisis Management Team (CCMT)

Comprehensive team established at the Emergency Operations Centre to support the field and IMT response. The CCMT provides direction and support for local actions with emergency management response guidance, designed to enhance the local facility's emergency plan and capabilities; while also managing external pressure(s) from the media, local community or other stakeholders to allow the local response team to focus on containing the issue itself.

The Corporate Crisis Management Plan (CCMP) is designed to:

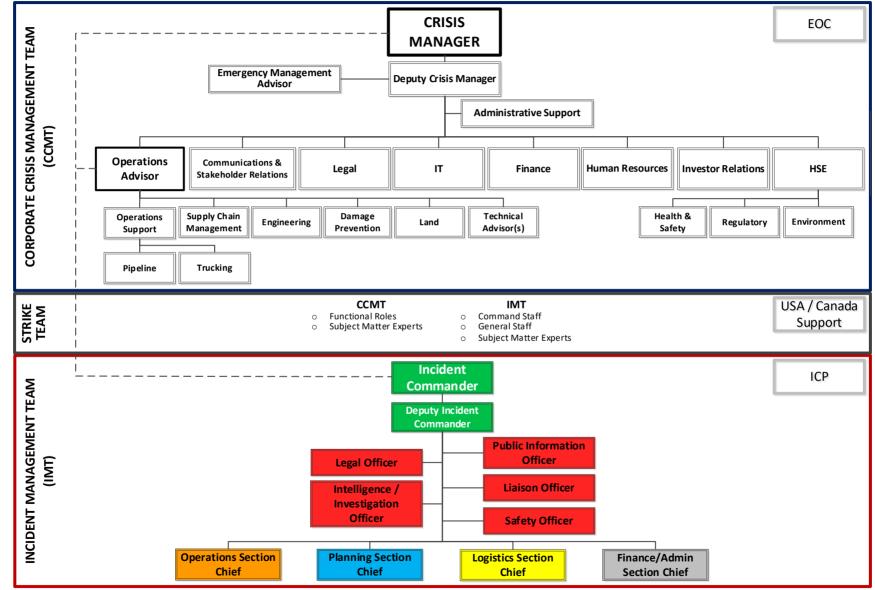
- Establish a framework and structure for the CCMT.
- Define criteria for classifying levels of response.
- Establish standardized notification and activation procedures.
- Identify roles and responsibilities for CCMT members and other key personnel.
- Prepare Plains to communicate effectively to all audiences during the event.

0.4.5 Corporate Strike Team (CST)

The Corporate Strike Team (CST) is comprised of enterprise-wide personnel that respond to the local incident scene and directly support the on-site Facility Response Team through the Incident Command Structure (ICS). The CST is responsible for communicating and coordinating activities through the Responsible Party Incident Commander (RPIC).



0.4.6 Response Organizational Structure



NOTE: Roles and responsibilities are assigned based on the needs of the incident and span of control.



0.4.7 Incident Command System

PMC has adopted and fully implemented the Incident Command System (ICS) at all levels within the organization. ICS is a comprehensive and practical system widely used nationally and internationally by both government and industry sectors to manage emergencies. It is a standardized, on scene, management system used for all types of emergency and non-emergency events. PMC has adopted the following core and consistent incident priorities for all emergencies:



All PMC personnel are trained to the following ICS principles and features that include:

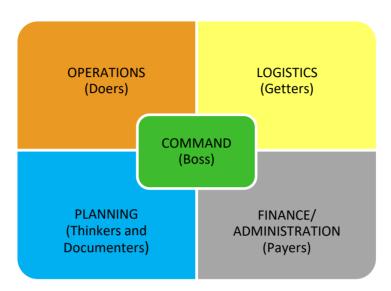
- Common Terminology
- Establishment and transfer of command
- Chain and unity of command
- Unified command
- Management by objectives
- Incident Action Plan (IAP)
- Modular (flexible) organization
- Manageable span of control
- Comprehensive resource management
- Incident location and facilities
- Integrated communications
- Information and intelligence management
- Personnel accountability
- Dispatch / Deployment

PMC personnel will use the ICS Planning Cycle (Planning "P") and ICS Forms to manage a response to an emergency.

PMC focuses training and formulates emergency responses based on the **management by objectives** principle. This is a systematic and organized approach that involves establishing and prioritizing common objectives to guide the actions of all responders. This approach allows responders to focus on achievable goals and to attain the best possible results from available resources. At the onset of an incident the incident priorities (life safety, incident stabilization and minimizing impacts) provide guidance for the objectives and are documented on the *ICS 201*. The incident priorities will act as the objectives until there is time to define SMART objectives that will also be added to the *ICS 201*. During a prolonged response the incident priorities are utilized to define and prioritize objectives within the **Incident Action Plan** (IAP) that are specific to the incident and hazard/area considerations. All incident communication, reporting and assignments occur using **common terminology** though clear text/speech and specific details without the use of slang, codes or acronyms. Roles and responsibilities are then identified based on the strategies and tactics that are outlined to achieve the established objectives. This works in conjunction with the principle for modular organization and the development of an organizational structure specific to the incident.



There are five primary ICS management functions that apply to both the Incident Management Team (IMT) and Corporate Crisis Management Team (CCMT):



- Command The Incident Commander is responsible for <u>all</u> response actions until additional functions and positions are assigned. Additional functions include the Command Staff that is comprised of the Safety Officer, Liaison Officer and Public Information Officer as well as General Staff comprised of Operations, Planning, Logistics and Finance/Admin.
- Operations Operations is responsible for directing all field tactical actions that include all responder and public safety actions, incident stabilization as outlined in the Incident Action Plan. It includes identification of personnel and equipment resources required to carry out tactical operations.
- Planning Planning is responsible for the collection, evaluation, dissemination, maintenance and display of incident information, and preparation of the Incident Action Plan to be executed by the Operations Section. It is also responsible for predicting the potential of the incident and to assess and recommend response tactics and countermeasures.
- Logistics Provides support to response operations by ordering resources and services, tracking and notifying responding personnel once they are available.
- Finance/Admin Ensures funding is available and tracked for response actions, monitors, manages, and tracks response related cost-accounting including time recording, claims and compensation.



The five primary ICS functions management functions are utilized by the Incident Commander. Once the incident has been assessed and it has been determined that the ERP will be activated, field personnel will be mobilized to create an Incident Management Team (IMT) organizational structure specific to the hazards and needs/complexity of the emergency response. At PMC the Corporate Crisis Management Team which provides support to the Incident Management Team, Crisis Manager follows a similar process, however mobilizes corporate personnel to create the Corporate Crisis Management Team (CCMT) organizational structure specific to the incident and supporting the IMT. The creation of the organizational structure helps to ensure the following:

- Unity of command Each responder reports to and receives direction from one source.
- Chain of command Outlines an orderly line of authority primarily focused on Section Chiefs, Branch Directors and single resources.
- **Span of control** Refers to the number of reports one person may have. It may range from 3-7 but the optimal number is 5.

All tactical resources are assigned to the **Operations Section** and the most hazardous activities are carried out there. Because of this, it is necessary to carefully monitor the number of resources that report to any one supervisor.

The following supervisory levels can be added to help manage **span of control**:

- Divisions are used to divide an incident geographically.
- Groups are used to divide functional areas of operation.
- Branches are used when the number of Divisions or Groups extends the span of control and can be either geographical or functional. Within Branches:
 - Unit That organization element having functional responsibility for incident, logistics, or finance/administration activity.
 - Task Force A group of unlike single resources assigned to complete certain tactical assignments.
 - Strike Team Similar to a Task Force but comprised of the same kind and type of resources to complete tactical assignments.

When responders are mobilized, they may be dispatched and/or report to any of the following **incident** facilities:

Incident Command Post (ICP)	The facility location where the command functions are carried out and the Incident Management Team resides. Typically located in close proximity to the incident. There should only be one ICP per incident response.
PMC Emergency Operations Centre (EOC)	The facility location established for the Corporate Crisis Management Team to carry out their functional responsibilities and check-in. It is located in the Calgary PMC Plaza.
Staging Area	A temporary location established by the Operations Section Chief for incident personnel and equipment to check-in and be immediately available for deployment on a tactical assignment. There may be multiple staging areas based on incident needs and are managed by a Staging Area Manager.
Heli-base	The main location from which helicopter-centred air operations are



	conducted.
Heli-spot	Temporary location for helicopters to safely load and unload personnel and cargo.
Reception Centre	A facility established for evacuated residents to check-in and for responders to assess their needs. There may be multiple reception centres based on incident needs.

The process of moving the responsibility from one Incident Commander to another is called **transfer of command** and generally occurs for expanding incidents and/or incidents spanning over multiple operational periods. There are 4 key steps to consider during transfer of command:

- 1. The outgoing Incident Commander should conduct an assessment with the incoming Incident Commander.
- 2. The Incoming Incident Commander must be adequately briefed on the ICS 201 or current IAP.
- 3. After the incident briefing, the incoming Incident Commander should determine an appropriate time for transfer of command.
- 4. At the appropriate time, notice of a change in incident command should be made to all responders.

Similarly, transfer of personnel follows the same principles and occurs when responsibility is moved from one responder to another. Transfer of command and/or personnel should be planned to ensure there are no impacts during the transition period.

NOTE: Section 2: Roles and Responsibilities include checklists for 2.5 Transfer of Personnel (all responders) and 2.6 Transfer of Command (Incident Commanders).

Unified Command may be needed for an incident response involving multiple jurisdictions or agencies. Unified Command is an authority structure in which the role of incident commander is shared by two or more individuals. Unified command is one way to carry out command in which responding agencies and/or jurisdictions with responsibility for the incident response share incident management.

If a Unified Command is needed, Incident Commanders representing agencies, jurisdictions, or organizations that share responsibility for the incident manage the response from a single Incident Command Post. 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. Under a Unified Command, a single, coordinated Incident Action Plan will direct all activities. The Incident Commanders will supervise a single Command and General Staff organization and speak with one voice.



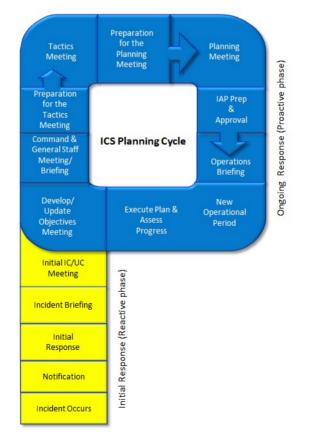
0.4.8 ICS Planning Cycle

Sound, timely planning provides the foundation for effective incident management. The Planning "P" acts as a guide to the ICS planning cycle and outlines steps involved in the strategic, operational, and tactical planning for an incident.

The ICS Planning Cycle (Planning "P") is used by the IMT Command Staff and General Staff in the Incident Command Post (ICP) to manage and execute Incident Action Plans (IAP) during each operational period.

The stem of the "P" outlines the Initial Response (Reactive phase) that takes place at the onset of the incident (first operational period) and focuses on the completion of the *ICS 201*. These steps include: Notifications, Initial Response, Incident Briefing, and Initial Incident Command (IC)/Unified Command (UC) Meeting. The actions associated with these steps are outlined in *Section 1: Initial Response* and the *Initial Response Checklist*.

The top of the "P" outlines the planning cycle known as the Ongoing Response (Proactive phase). The planning cycle steps work towards the completion of an IAP for the next operational period. These steps include: *Develop/Update Objectives Meeting, Command and General Staff Meeting, Preparing for the Tactics Meeting, Tactics Meeting, Preparing for the Planning Meeting, Planning Meeting, IAP Prep & Approval, and Operations Briefing.* The completed IAP should outline the objectives, strategies and tactics for the last step of the cycle (*Execute Plan & Assess Progress*). At this point, the planning cycle begins again for the following operational period. Full details of the ICS Planning Cycle steps and meetings are outlined in *Section 2: Roles and Responsibilities – ICS Planning Cycle*.





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Core Emergency Response Plan

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SECTION 1: Initial Response

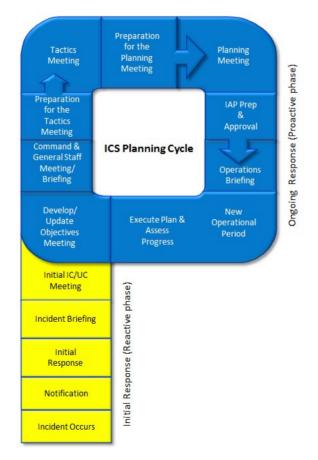
1.1 Introduction

The Initial Response section provides guidance for all responders, with a heavy focus on the Incident Management Team (IMT) to respond to an emergency during the first operational period. Initial Response (reactive phase) is comprised of: *Notification, Initial Response, Incident Briefing*, and *Initial IC / UC Meeting*; the yellow boxes indicated below within the stem of the Planning "P".

An Initial Response Checklist has been created to assist with the majority of these actions and it revolves around the completion of the *ICS 201* Incident Briefing Form. The *ICS 201* acts as the Incident Action Plan and captures all information for the first operational period.

The Initial Response Checklist and *ICS 201* are documents which need to be used to guide the initial response and document all actions. These documents are then used to help conduct the Incident Briefing and the Initial Incident Commander / Unified Command Meeting. The details (purpose of the meeting, agenda items and attendees) for these two steps are outlined at the end of this section.

NOTE: The Initial Response process and actions for the CCMT and Corporate responders are outlined in Section 2: Roles & Responsibilities – CCMT.





1.2 First on the Scene Actions

The highest priority is personal safety. First responders should consistently approach every incident and hazard by taking the following actions.

- 1. **Evacuate** Remove yourself from the hazard area and direct others to a designated safe area. Take a head count as applicable.
- 2. Alarm Alert other area personnel, immediately contact the Olds Operational or Local Authorized Control Centre and notify emergency services, if required.
- 3. Assess Do an initial assessment of the situation. Identify and control hazards and risks.
- 4. **Protect** Control entry into the immediate hazard area and put on the appropriate personal protective equipment.
- 5. **Rescue** Safely enter the hazard area to recover any injured /missing personnel as applicable.
- 6. **First Aid** Once the casualty has been removed to a safe area, assess the casualty's conditions and apply the appropriate first aid. Ensure local emergency services have been contacted and arrange for transport.

1.3 Initial Response Checklist

PMC has developed a quick reference Initial Response Checklist to assist response personnel with the actions required at the onset of an emergency. This checklist provides a general guideline for the Incident Commander. The Incident Commander is responsible to ensure that all steps are addressed and may delegate responsibilities to other responders as required. Note that some actions may not be applicable given the nature of the incident. The checklist is organized into six steps. Each outlined step has additional supporting information regarding the actions and considerations required to fully complete the Initial Response (reactive phase) process.

PMC has adopted the ICS incident priorities for all emergencies and use them as the initial objectives for all initial response actions. These priorities are:





INITIAL RESPONSE CHECKLIST Notifications Complete the Initial Response Guidebook (IRG) Initial Notifications Form **District Manager** HSE Representative(s) Regulator ٠ **Division Director** Oil spill response contractors • Mutual aid organizations **Control Center** • Support services Local companies Begin to establish an Incident Management Team (IMT) **Initial Actions and Assessment** □ Secure the site, incident area and/or emergency planning zone (EPZ) Consider evacuating the area (or facility) and/or non-critical personnel, as required Ensure completion of the *IRG Critical Information Report* Location & Asset type Workers involved & Injuries • Security impacts Public impacts Assistance/equipment requirements Current situation • Incident Picture & ERG App Screenshot **Environmental impacts** Product type & volume released • Note: For security incidents refer to the Security Response Checklist. **Document Initial Actions** Begin updating the *ICS 201* Incident Briefing Form Map Safety considerations Current actions ٠ ٠ Incident details Priorities Organizational chart Objectives Current situation • Resources Ensure completion of the IRG Initial Incident Site Safety and Health Plan □ Provide an update to all responders and leadership □ Determine with leadership if the EOC needs to be activated □ Identify the applicable ERP and site specific information Level of Emergency* For operational incidents, refer to Incident Classification Matrix for guidance □ Level 1 Level 2 □ Level 3 □ Alert Communicate the level of emergency to the Control Center, EOC, all responders, and regulators **Incident Details** □ Continue to gather incident details Determine and/or confirm the public safety and responder zones - EPZ, Hot/Warm/Cold Zones, etc. Determine public protection measures to ensure public safety - evacuation, shelter-in-place, ignition □ Identify all potential impacts/hazards and define sensitive areas - weather, public, environment, etc. Activate Emergency Response Protocols Get Big Quick' - Mobilize personnel, services and equipment required Activate and establish incident facilities - ICP, EOC, staging area, reception centre, etc. (as required) Establish communications between incident locations, facilities, and responders □ Activate and populate an incident specific VEOC/VICP site* Develop a Safety Plan, including applicable SOPs, FLHAs, etc. (ICS 208) □ Document response actions and plans (ICS 201, ICS 207, ICS 211 p/e & ICS 234, as required) **Incident Briefing and Next Steps** Conduct Initial Incident Briefing (Review current *ICS 201* from the IMT) □ Establish SMART objectives, strategies and tactics (ICS 234) □ Assign roles & responsibilities to accomplish strategies and tactics (ICS 207-IMT) □ Populate the *Situation Status Display Board* with current information

*For Canadian operations only



Core Emergency Response Plan

Security Response Checklist		
Threat Assessment Tool Complete the Threat Assessment Tool: Likelihood – Medium or High (Realistic) – Initiate Security		
Complete the Threat Assessment 1 Notifications	ool: Likelihood – Medium or High (Re	alistic) – Initiate Security
□ Likelihood – Low (Non Realistic)	🗆 Likelihood – Medium (Realistic)	Likelihood – High (Realistic)
Security Notifications		
□ Notify Plains Supervisor, District Manager, Director Operations, Sr. Vice President		
Contact local law enforcement via Non-Emergency number, use 911 if required		
□ Notify the Operational Control Centre (OCC) and issue a PINS/Maximo Incident and/or Service Desk (for		
Cyber Incident) Notify Information Services Corporate Crisis Management Team distribution list (Dist-GRP-IncidentSupport) (for Cyber Incident)		
Cyber Incident)		
Notify the Security Management Department and/or Information Services (for Cyber Security)		
Document Initial Actions		
Begin documenting all actions on ICS201 Incident Briefing Form		
 Record initial incident details (type of incident, location, personnel, communications, response details) 		
To achieve incident priorities - <i>Life Safety, Incident Stabilization and Minimize Impacts</i>		
Consider site evacuation to Muster Points		
Begin completing the <i>Security Threat Assessment Form</i> (for Security and/or Cyber Security Incidents)		
Security Threat Response Plan (STRP) Standard		
 Complete Security Threat Assessment Form Determine Plains Security Threat Level: Low Threat Medium Threat High Threat 		
Determine Plains Security Threat Level: Low Threat Medium Threat High Threat Conduct Security Threat Briefing and review Security Threat Level with Plains Management and ICP/EOC		
□ Liaise with Plains Officer for final approval to raise Security Threat Level		
□ Implement Countermeasures for Medium/High Security Threat Level as required		
□ Notify – Internal Notifications and External Notifications		
Activate Site Specific STRP and/or Cyber Security Functional Support Plan (if required)		
Activate - ERP		
Determine the Level of Emergency	r: 🗌 Alert 🗌 Level	1 🗌 Level 2 🗌 Level 3
□ Communicate the Security Threat I		
□ Notify the lead Regulatory Body (AER,NEB, MECON, EMO, Transport Canada, USCG, TSA, DHS, ETC) as		
required		
□ Incident Response Classification (<i>Refer to 1.3.4.2. Incident Classification Matrix</i>) for response activities		
Evacuate facility and/or non-critical personnel, as required		
Activate and establish incident facilities - ICP, EOC, staging area, reception centre, etc.		
Complete an ICS 211p &/or ICS 211e at all incident facilities and response locations		
Get Big Quick' - Mobilize personnel, services, and equipment required		
Develop a Safety Plan (including applicable SOPs, FLHAs, etc.)		
Update the ICS 201, Security Threat Assessment Form, ICS 207 and/or ICS 234.		
Consider utilizing Security Intelligence Officer		
Site Evacuation		
Evacuation as per local procedures and ensure 100% of personnel are accounted for; this includes all Plains employees, contractors, and visitors on site. The following points should be observed:		
Personnel should leave office doors open as they leave <u>(suspect package only)</u>		
Personnel should take their personal belongings with them (e.g. purse, lunch bag, and briefcase).		
□ Instruct personnel to be observant during evacuation and report any suspicious packages or activities		
immediately.		
Personnel must be instructed NOT to post information on social media or contact people outside of the Plains organization		



1.3.1 Notifications

In the case of an emergency, internal and external notifications must be made. This step outlines the required notifications along with processes for doing them. Specifically, the Notification Flowchart outlines who needs to be contacted, the order that notifications occur and the related decisions and actions.

PMC Field Leadership will be notified of a potential incident or emergency through one of three avenues.

- 1. Member of the public contacts the local emergency number.
- 2. PMC employee/contractor identifies an emergency and contacts the Area Supervisor and/or the Olds Operational or Local Authorized Control Centre.
- 3. Olds Operational or Local Authorized Control Centre detects an issue or receives a system alert and contacts the Area Supervisor and on-call H & S Advisor.

1.3.1.1 Internal Notification

The first responder must immediately notify the Area Supervisor and Olds Operational or Local Authorized Control Centre. Regardless of the notification method, the Control Centre will contact the applicable Area Supervisor and the on-call EH & S Advisor, as well as issue a PMC Incident Notification System (PINS) email. The Area Supervisor will contact the District Manager and they will contact the Director, Operations, who will assume the role of the Incident Director. The Incident Director will assist with evaluating the resources available in the field and fill any gaps with Corporate Head Office responders or complete responsibilities from the EOC. The notification process is outlined in the *1.3.1.3 Notification Flowchart*. All incident and response details must be documented in the *ICS 201* and all personal activities, communications and decisions must be documented in an *ICS 214a*.

Note: Refer to the 'Incident Reporting and Investigation Program' for additional requirements.

1.3.1.2 External Notification

External notifications must happen simultaneously with internal notifications. The following notifications must occur immediately once the incident has been verified.

- PMC First Responder notifies 911, if required.
- Incident Commander must ensure the lead regulatory body, local authorities, indigenous communities, mutual aid organizations, and other local companies.
 - This may be delegated to the Liaison Officer, Liaison Manager or Deputy Incident Commander, if established.

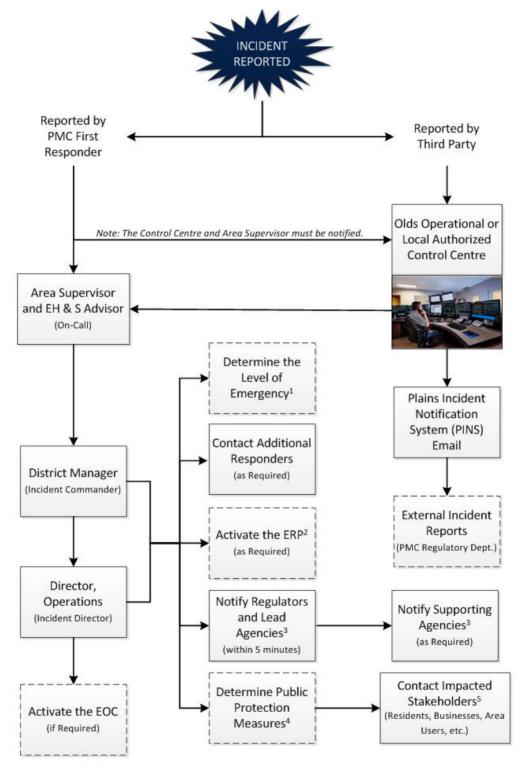
Additional notifications to government and supporting agencies must be made once emergency response protocols are activated. These notifications can be made by the Liaison Manager (CCMT) and/or Liaison Officer (IMT). Refer to *8.3 Government Notification Matrix*. When contacting external agencies, ensure that the following information is recorded:

• Agency contacted, point of contact, date/time of call, and information provided/requested.

Once external agencies (government agencies, first responders, local authorities, indigenous communities, etc.) are notified and engaged, PMC will work with the appropriate lead agencies to determine if Unified Command should and/or will be established.



1.3.1.3 Notification Flowchart



¹Refer to 1.3.4.1 Incident Classification Matrix to determine the level of emergency ²Refer to 1.3.5 Activate the ERP for procedures and considerations.

³Refer to the 8.4 Notification Requirements to determine all agencies and services that need to be contacted. ⁴Refer to 4.8.3 Public Protection Measures Flowchart.

⁵Refer to Respond emergency response mapping and/or Section 9: Site Specific Information to determine the EPZ on an area map and identify pertinent contact information in the sealed confidential envelope.



1.3.2 Initial Actions and Assessment

Initial actions to prevent and/or limit the impact to life safety must immediately be identified and resources deployed. This includes:

- PMC first responders investigate and confirm the incident (if required)
- Initial Incident Commander and Operations Section personnel perform initial response actions
- Evacuate non-critical personnel from the incident area and/or facility (if required)
- Secure the incident area
- Determine, secure, and isolate the EPZ
- Record and begin to establish an Incident Management Team (IMT)

Note: Initial actions and incident details/information can be recorded after immediate impacts to life safety have been addressed.

The incident and associated impacts must initially be assessed. The Incident Commander is responsible for gathering all incident details, but the collection of this information may need to be assigned to additional personnel, such as a Safety Officer, Operations Section Chief, and/or Operations Section personnel.

At the onset of an incident all details and impacts may not be available. Begin collecting and recording incident details. Continually record information as it becomes available and the response progresses.

- Location
- Asset type
- Product type and SDS (if available)
- Estimated volume released
- Impacts to watercourses

- Geographical impacts
- Workers involved and injuries
- Public impacts
- Media attention
- Any other potential consequences

For guidance, refer to *Initial Assessment Checklist* found in the Emergency Response Forms Binder and at the Incident Command Post (ICP) in the Emergency Response Forms Box.

1.3.3 Document Initial Actions

Ensure that all initial response actions and incident details are recorded in the *ICS 201 Incident Briefing Form (ICS 201)*. The *ICS 201* is the key tool to the initial response process that provides guidance for documenting all incident details, actions and response plans. There will be only one ICS 201 and it will continually be updated throughout the initial response until an Incident Action Plan (IAP) has been prepared for the second operational period and the first operational period is coming to a close. The *ICS 201* outlines:

- Incident details
- Current actions
- Strategies and Tactics to achieve the incident priorities and initial objectives
 - o Life safety, incident stabilization and minimize impacts
- Response Organizational Structures (ICS 207)
- Resource statuses and assignments

The Incident Commander utilizes the most up to date *ICS 201* to provide any new respond

ers with incident briefings as required.



1.3.4 Level of Emergency

PMC utilizes a standard assessment matrix to classify all emergencies and outline the required notifications and actions. If an incident is classified as an emergency at any level higher than Alert, the ERP must be activated.

The level of emergency should be discussed with the lead regulatory agency and must be determined in conjunction with the AER (if the incident falls within their jurisdiction). Utilize *1.3.4.1 Incident Classification Matrix* to identify the consequences of the incident and the likelihood of incident escalation to calculate the level of emergency. The level of emergency defines the appropriate incident response actions outlined in *1.3.4.2 Incident Response Classification*. Ensure that all information is recorded in the *ICS 201*.

Once confirmed, the level of emergency must be communicated to the Operational Control Centre (OCC), the Emergency Operations Centre (EOC), the Incident Director and all responders.



Core Emergency Response Plan

1.3.4.1 Incident Classification Matrix

Table 1				
	Consequence of Incident			
Rank	Category	Example of consequence in Category		
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. 		
3	Major	 Worker(s) require hospitilization. Regional and national media interest. Liquid release extends beyond lease not contained. Gas release impact extends beyond lease - public health/safety could be jeopardized. 		
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. 		
1	Minor	 No worker injuries. Little or no media interest. Liquid release contained on lease. Gas release impact on lease only. 		

Table 2

Likelihood of incident escalating*

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

Rank	Descriptor	Description
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 licenss will require assistance from outside parties to remedy the situation.
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.
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.
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

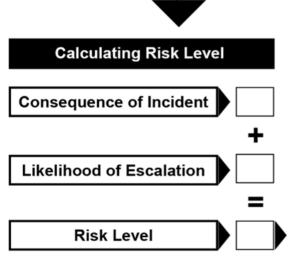


Table 3 - Incident Classification		
Risk Level	Assessment Result	
Very Low 2-3	Alert	
Low	Level - 1	
4-5	Emergency	
Medium	Level - 2	
6	Emergency	
High	Level - 3	
7-8	Emergency	



1.3.4.2 Incident Response Classification

Responses	Alert	Level-1 Emergency	Level-2 Emergency	Level-3 Emergency
		Communications		
Internal	Discretionary, depending on licensee policy.	Notification of management.	Notification of management.	Notification of management.
External Public	Courtesy, at PMC discretion.	Mandatory for individuals who have requested notification within the Emergency Planning Zone.	Planned and instructive in accordance with the specific ERP.	Planned and instructive in accordance with the specific ERP.
Media	Reactive as required.	Reactive as required.	Proactive media management to local or regional interest.	Proactive media management to national interest.
Government	Reactive as required. Notify the Lead Agency if public or media is contacted.	Notify the Lead Agency. Call local authority if public or media is contacted.	Notify the Lead Agency and local authority.	Notify the Lead Agency and local authority.
		Actions		
Internal	On site as required by licensee.	On site as required by licensee. Initial response undertaken in accordance with the site-specific or corporate-level ERP.	Predetermined public safety actions are under way. Corporate Crisis Management Team alerted and may be appropriately engaged to support on-scene responders	Full implementation of emergency management system.
External	On site as required by licensee. On site as required by licensee. Don site as required by licensee. Potential for multi- agency (operator, municipal, provincial, or federal) response.		Immediate multi- agency (operator, municipal, provincial, or federal) response.	
		Resources		
Internal	Immediate and local. No additional personnel required.	Establish which 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.



1.3.5 Incident Details

As the response continues, incident details must continually be collected. This will assist with the following:

- Determine appropriate response actions
- Define Emergency Planning Zone (EPZ) or Environmental Emergency (E2) Zone
- Define responder safety zones (I.e. Hot/Warm/Cold Zones and Decontamination Corridor)z
- Identify potential impacts, hazards and sensitive areas
 - Weather, public, environment, etc.
- Conduct and document field level hazard assessments
- Release reporting requirements
 - Refer to PMC Release Reporting Standard Procedure

Consider the following aspects when collecting incident details. For assistance with documentation, refer to the *Initial Assessment Checklist* found in the Emergency Response Forms Binder and at the Incident Command Post in the Emergency Response Forms Box.

- Collect key information regarding initial incident details
 - Location (E.g. access to services, available personnel, traffic, etc.)
 - EPZ identified in the ERP and impact to the public
 - Area considerations (E.g. forests, highways, hydrology, topography, urban centres, etc.)
 - Weather conditions (E.g. speed/direction of wind, temperature, condensation, etc.)
 - \circ $\;$ Egress in and out of the incident location and road conditions
- Assess the hazards, and corresponding controls
 - Identify the product, quantity and state that the product(s) are in (Ex. liquid or gas)
 - Refer to the associated Safety Data Sheets (SDS) for additional health and safety hazard information.

http://www.plainsmidstream.com/page/safety-data-sheets

- Determine the fire footprint (Ex. extent of impact, air quality, etc.)
- Determine the spill foot print (Ex. extent of impact, nearby water bodies, product considerations, etc.)
- Identify any other hazards that may potentially escalate impacts or impact PMC's ability to control or contain the incident (Ex. electrical, power lines, mechanical, overhead equipment, confined space, ambient temperature, wind direction and speed, etc.)
- Order/Deploy mobile air monitoring equipment (Ex. LEL, H₂S, SO₂, O₂, benzene, etc.)
 - Responding personnel must utilize their personal monitors for initial readings of LEL, H₂S, CO and O₂
 - Other chemical contaminants (Ex. SO₂, Benzene, etc.) must be measured with specific direct reading instruments
 - Strongly consider deploying mobile air monitoring for any reportable incident
- Conduct air monitoring and consider the following life safety limits.
 - Combustible gas levels of 10% LEL or greater
 - H₂S levels of 10 ppm or greater over an 8 hour time weighted average
 - H₂S levels of 15 ppm for a 15 minute exposure time limit



- SO₂ levels of 2 ppm or greater over an 8 hour time weighted average
- SO₂ levels of 5 ppm for a 15 minute exposure time limit
- Benzene levels of 0.5 ppm or greater over an 8 hour time weighted average
- Benzene levels of 2.5 ppm for a 15 minute exposure time limit
- O₂ content of less than 19.5% or greater than 23.5%

Note: The above life safety limits are worker exposure limits and not to be used for public protection considerations.

- Assess the current, anticipated, and potential impacts
 - o Workers impacted and in the area
 - Worker injuries and/or fatalities
 - Nearby communities and members of the public (Ex. urban centres, indigenous communities, business, infrastructure, private property, etc.)
 - Environment and surrounding area (Ex. hydrology, forests, soil, wildlife, etc.)
 - Other assets (Ex. pipeline systems, facilities storage bullets, etc.)
 - Business continuity (Ex. transportation, 3rd parties, storage, supply of product, etc.)

Note: Refer to the 'Job Hazard Assessment Program' for additional guidance.

All incident details will be collected and organized by the Incident Commander. The collected information will be captured in the *ICS 201* and utilized to:

- 1. Outline the appropriate strategies and tactics to achieve the incident priorities and initial objectives (life safety, incident stabilization and minimize impacts).
- 2. Determine the level of emergency.
- 3. Determine if the ERP will be activated.
- 4. Identify additional resources and response personnel.

1.3.6 Activate Emergency Response Protocols

The ERP will be activated for any level of emergency (1, 2, or 3) and the response will vary based on the complexity of the incident, as outlined in Step 3 (*1.3.5 Incident Details*) of the Incident Response Checklist.

Once it is determined that the ERP will be activated, PMC utilizes the 'Get Big Quick' approach to emergency response. The following actions need to be considered:

- Identify and order resources required (Ordering needs to go through the Logistics Section as soon as it is established)
 - How many responders are required?
 - Are any technical specialists required?
 - o What support service companies to need to be contacted?
 - Consider company locations for response times.
 - Ensure a staging area has been identified before deploying equipment.
- 'Get Big Quick' and mobilize personnel , engage support services, order required equipment
- Identify and activate required incident facilities (Ex. ICP, staging area, reception centre, etc.)
- Setup the ICP and/or EOC
 - When activating the EOC specific processes must be followed (1.3.6.2 EOC Activation and Setup).
- Establish communications between incident locations, facilities, and responders



- Create and activate an incident specific VEOC/VICP site
 - Create and/or document initial incident documentation (I.e. ICS 201, incident pictures, etc.)
 - o Record initial incident details
 - Incident name, level of emergency, and initial situation report
 - Create an incident specific Respond (emergency response mapping system) session
- Identify the applicable ERP and site specific information
- Track response resources (personnel, equipment and services) at each incident facility using ICS 211p's and ICS 211e's
- Develop a Safety Plan
 - Including applicable Standard Operating Procedures (SOPs), Field Level Hazard Assessments (FLHAs), etc.
- Update applicable ICS documentation (I.e. ICS 201, ICS 207-IMT, ICS 234)
- Prepare to conduct an Incident Briefing
 - Separate incident briefings must be conducted for IMT responders and CCMT responders.
- Provide a copy of the *ICS 201* to the Incident Director

Note: Some of the above actions may have already been accomplished.

1.3.6.1 ICP Activation and Setup

The Incident Command Post (ICP) must be strategically identified and outside of the EPZ. Consider the preidentified ICP locations (*Refer to Section 9: Area Specific Information*) before identifying an alternate location. When establishing an ICP the following considerations must be made:

- Large enough to host all potential responders
- Communications and connections readily available (E.g. Internet, power outlets, phone lines, etc.)
- In close proximity to the incident but outside of the hazard area and EPZ, if possible
- Easily accessed by responders and agencies
- Security is able to control access

Refer to 1.3.6.3 ICP Layout and utilize the following checklist when setting up the ICP:

- □ Configure the room and organize tables
- Establish a separate breakout room, if available, as the Unified Command / General Staff Meeting Room
- □ Post wall maps, charts, situation board and Emergency Response Forms Box
 - o Publish incident and response details
- □ Setup network/internet connection
 - Create a PMC Wi-Fi spot, if required
- □ Access ICS vests, table cones and additional signage
- □ Prepare (and/or print) the appropriate forms for responders
- □ Prepare workstations with ICS 214a's and stationary
- Establish a check-in procedure and utilize an ICS 211p to track all personnel
- □ Lockdown the location and establish security protocol for the ICP and all facilities



1.3.6.2 EOC Activation and Setup

The Emergency Operations Centre (EOC) is pre-established at the Calgary PMC Plaza and will always be available 24/7 in the event of an emergency. Use the following steps to activate the EOC and Corporate Crisis Management Team (CCMT) personnel:

- 1. Contact PMC Emergency Management to provide support for the duration of the response
- 2. Send an email to *Dist-Grp-Emergency-Calgary EOC* to advise CCMT responders to be on stand-by and provide a brief incident summary.
 - After hours, have personnel identify if they are available to respond.
- 3. Determine required CCMT Roles. Engage and assign available personnel.
- 4. CCMT Managers to identify required support roles and advise personnel to be on stand-by
 - Establish Scribe and Documentation Unit roles
 - Contact Communications Unit (Information Services) to support all technology in the EOC and Overflow EOC, if required
- 5. Coordinate and facilitate an EOC Incident Briefing.
 - In person at the EOC or virtually in the VEOC.

Refer to *CCMT Organizational Chart/Call Down List* for pre-identified CCMT personnel and the *EOC/CCMT Holiday Coverage Schedule* available on EM SharePoint site, if applicable.

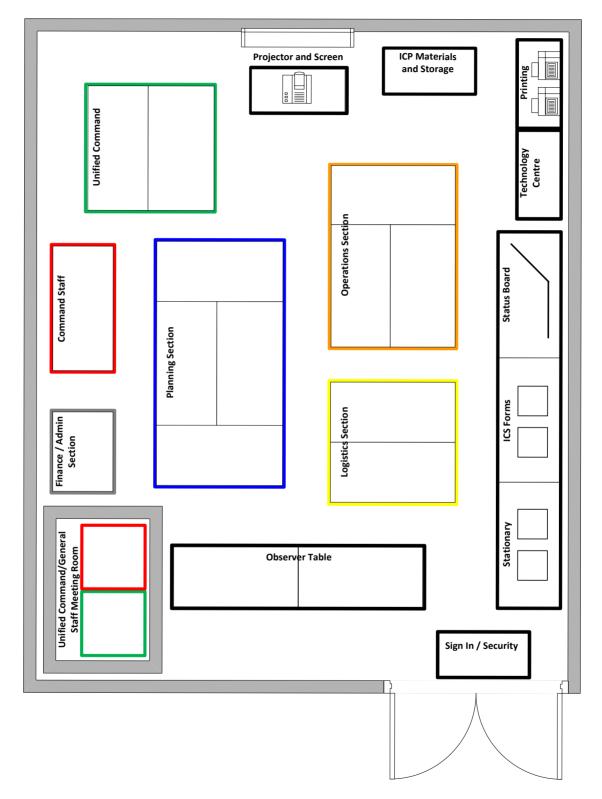
Utilize the following checklist when setting up the EOC:

- $\hfill\square$ Post wall maps, charts and situation board
 - o Publish incident and response details
- □ Prepare (and/or print) the appropriate forms for responders
- □ Prepare workstations with *ICS 214a's* and stationary
- Setup and test EOC technology (E.g. main computer, projector, laptops, Wi-Fi connection, etc.)
- Establish a check-in procedure and utilize an *ICS 211p* to track all personnel
- □ Establish security protocol for all Corporate CCMT responders

For additional guidance, refer to PMC Emergency Management and the *EOC Activation Checklist* and *EOC Incident Briefing Agenda* available in the EOC.



1.3.6.3 Incident Command Post (ICP) Layout



NOTE: This layout is an example only. ICPs will be set up according to specific IMT needs and available resources.



1.3.7 Incident Briefing and Next Steps

All responders (not exclusive to PMC personnel) must receive an incident and safety briefing. This is accomplished by reviewing the active *ICS 201* and any safety plans including JHA's during the Incident Briefing. During the briefing, responding personnel will receive their roles and responsibilities which include: current actions, task/expectations, reporting requirements and communications. Common responsibilities that will be assigned to personnel are outlined in *1.3.6.2 Response Actions – Next Steps*.

NOTE: Responders that are not present at the Incident Briefing must be briefed independently.

The Incident Briefing also provides the Incident Commander, and Incident Director in the EOC, the opportunity to:

- Identify safety issues and concerns
- Outline initial response actions
- Assign resources to specific strategies/tactics
- Review assigned roles and responsibilities
- Dispatch field personnel

1.3.7.1 Incident Briefing

Who is Involved

The responsible party Incident Commander (or PSC if available) facilitates the meeting, with Command and General Staff attending, as available.

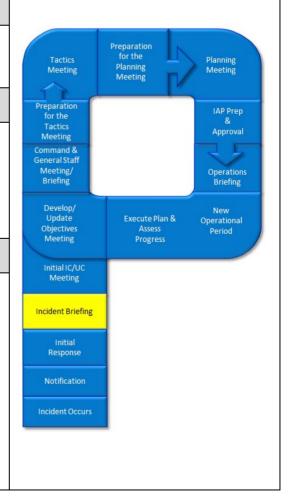
Tasks

The Incident Briefing using the ICS 201 enables a Transfer of Command, if required, and updates the Unified Command, Command and General staff and incoming responders to current objectives and priorities as well as the current situation. Decisions should be captured on the ICS 201.

Agenda

With the aid of *ICS 201*, the incident Briefing agenda should include:

- Initial objectives and priorities
- Current situation (confirmed and contingent)
- Current and planned actions
- Communications
- Current on-scene organization
- Resource assignments
- Resources en-route and/or ordered
- Facilities established
- Incident potential





1.3.7.2 Response Actions – Next Steps

Additional response actions need to be considered to mitigate all hazards, that are generated from the objectives and strategies outlined within the Incident Briefing. Ensure that the following actions have been addressed, if not already completed.

- □ Isolate the hazard area and EPZ
 - Establish roadblock locations, search areas and dispatch rovers
 - o Identify/dispatch air monitors
- □ Establish SMART objectives, strategies, and tactics on the ICS 234
- □ Assign roles and responsibilities to accomplish identified strategies and tactics and record all responders on the *ICS 207-IMT*.
- Determine the appropriate public protection measures to ensure public safety (shelter in place, evacuation, ignition, etc.)
- □ Enact public protection roles and actions (E.g. Roadblocks, Rovers, Notification Group, Air Monitoring, Reception Centre, etc.)
- Contact and advise all impacted residences, businesses and surface developments within the EPZ
 - If the EPZ impacts a city/town boundary or Aboriginal community contact the applicable representative (Ex. Director of Emergency Management) to coordinate public protection measures.
- □ Notify all other impacted members of the public
 - Industrial operators, trappers, guides and outfitters, grazing leases, public recreation areas, farm use areas, etc.
- □ Liaison Manager and/or Liaison Officer must address the following:
 - Provide an update to all previously contacted regulators, local authorities, indigenous communities, government agencies, supporting agencies, mutual aid organizations, and other local companies
 - Refer to Section 8: Government Agencies and Local Authorities
- □ Identify any other actions to achieve the incident priorities (life safety, incident stabilization and minimize impacts)
 - A Notification to Airmen (NOTAM), also known as a 'no fly zone', may be issued by the lead regulatory body for Level 2 and 3 emergencies
- □ Identify and record additional incident objectives and strategies on the ICS 201
- □ Populate the *Situation Status Display Board* with current information.



1.4 Initial Incident Command / Unified Command Meeting

Who is Involved

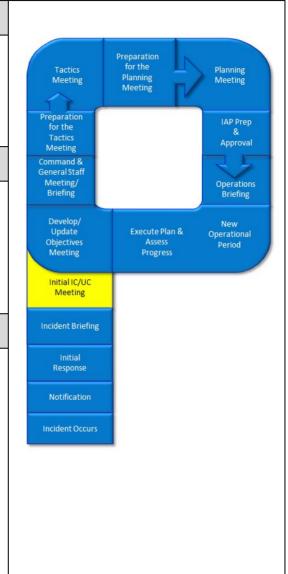
When a new Incident Commander is incoming or if additional lead agencies are going to form Unified Command (UC), then an Initial IC/UC Meeting must occur. This meeting is conducted by the Responsible Party Incident Commander or the Planning Section Chief.

Tasks

New Unified Command and General staff will review current objectives and priorities within the current situational scope of the incident and the newly created command structure and agree or revise them. The participants must identify jurisdictional boundaries and focus, and establish and agree on response priorities.

Agenda

- Review the completed ICS 201
 - o Incident details
 - Current response actions, objectives and strategies
 - Resources engaged and current statuses
- Outline PMC organizational chart (IMT and CCMT)
- Identify incident facilities
- Confirm the expectations from each UC agency including roles and responsibilities
- Outline areas of responsibility and jurisdiction





SECTION 2: Roles and Responsibilities

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2.20	GIS Support
2.21	Gathering / Marketing (Trucking) Advisor
2.22	Cyber Security Advisor



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SECTION 2: Roles and Responsibilities

2.1 Introduction

The PMC emergency response framework is comprised of response organizations that work in conjunction with one another and are in regular communication.

There are three key teams responsible for either directing or supporting emergency response efforts.

For additional information on PMC response framework and organizations, refer to the PMC IMH.

For additional copies, request through

Incident Management Team (IMT) is responsible for managing the emergency response and all field level (tactical) emergency response actions. The roles and responsibilities for IMT is located within the PMC IMH.

Corporate Strike Team (CST) The CST is responsible for performing roles as required in the IMT and for communicating and coordinating activities through the Responsible Party Incident Commander (RPIC).

Corporate Crisis Management Team (CCMT) is responsible for supporting the IMT, by managing long term impacts and business continuity.

2.1.1 Transfer of Personnel

As detailed in *0.4.7 Incident Command System*, there are 4 key steps to consider when transferring personnel in any key response role:

- 1. The outgoing responder should conduct an assessment with the incoming responder.
- 2. The Incoming responder must be adequately briefed (refer to ICS 201 Form)
- 3. After the incident briefing, the incoming responder should determine an appropriate time for transfer of responsibilities (under direction from the Incident Commander)
- 4. At the appropriate time, notice of a change should be made to all applicable responders.

2.1.2 Demobilization / Post-Incident Procedures

There are five major activities involved with demobilization. These are primarily coordinated by the Incident Commander and IMT. The CCMT will be responsible for any corporate, government, and media, as well as the overall evaluation of the emergency response.

Demobilization activities include:

- 1. Emergency stand down notifications
- 2. Assist the public
- 3. Site cleanup and/or repairs
- 4. Debriefs, Investigation and reports
- 5. Incident records management



Emergency Stand Down Notification

- The Incident Commander, in consultation with the Incident Director, the lead regulatory agencies, the appropriate Local and Provincial Disaster Service Authorities, and Health Authority, will be responsible for the downgrading of a Level 2 or 3 emergency and/or ordering a "Return to Normal" status.
- All IMT and CCMT members, including contract personnel and emergency services must be notified.
- All previous contacts including public, government and industrial operators must also be notified.
- Ensure a media statement is prepared and engaged media are contacted, as applicable.
- Debriefings with other engaged and/or supporting personnel (Ex. insurance, legal, human resources, etc.) should be conducted.
- Document all "Return to Normal" activities.

Assist the Public

- Prior to the "Return to Normal" signal, ensure that all evacuated areas are safe to re-enter.
- Ensure evacuees are promptly notified and assistance in returning to their homes is provided.
- Maintain security until all residents have returned to their homes.
- Ensure resident expense/damage claims are promptly collected and processed.
- Arrange to communicate with the resident further to answer questions and address concerns.
- Document assistance activities.

Site Cleanup and/or Repairs

- If serious injury or death has occurred, the scene must be left undisturbed.
- Secure the incident site for any ongoing investigation.
- Once the investigation has been completed and authorization by RCMP (or applicable authority) has been given to re-enter the area, begin clean-up activities.
- If an investigation is NOT imminent, prioritize cleanup activities and restore the site to normal operating condition utilizing all available staff and resources.
- Conduct any safety or environmental inspections.
- Document all cleanup activities.

Debriefing, Investigation and Reports

- Analyze and review all documentation and physical evidence to establish probable cause of incident. Depending on the complexity of the incident, an investigation team
- Review effectiveness of response procedures including, safety standards utilized, media and public relations actions and environmental control measures. Identify the strengths and areas that require improvement.
- Evaluate effectiveness of internal and external communications systems and notification calldown efforts.
- Identify the legal and environmental consequences resulting from the incident or response.
- Estimate current and future expenses.
- As applicable, prepare a corporate report recommending incident prevention measures, improvements to emergency response procedures and required company policy changes.
- Ensure all employees, contractors, and members of government and community agencies are recognized for their efforts.

Incident Records Management

- Collect all documentation from all field, contract services and responders.
- Photograph, video as much information as possible.
- Ensure all statements, time and event logs, forms etc. are indexed and stored for five years (or applicable retention period).



Incident Management Team (IMT)

2.2 IMT Organization

The PMC emergency response framework is comprised of response organizations that work in conjunction with one another and are in regular communication. The Incident Management Team (IMT) is based in the field at the Incident Command Post (ICP).

- Responsible for managing the emergency response and all field level (tactical) emergency response actions.
- Managed by the Incident Commander and at least initially comprised of local and nearby area personnel. Other company personnel who are trained to respond may take IMT roles as well as external agencies/company personnel as required.
- Deputy Incident Commander must be established communicates and report to the Incident Director (CCMT) at the EOC.

The IMT is built as best fits the demands of the incident. It is the responsibility of the Command and General Staff to build an IMT that is needed to effectively address the objectives and priorities established for responding to the incident. IMT leadership is comprised of:

- **Command Staff**: Incident Commander, Deputy Incident Commander, Safety Officer, Liaison Officer, Public Information Officer and Legal Officer.
- **General Staff**: Operations, Planning, Logistics and Finance/Administration Section Chiefs.

All field response roles, or tactical resources, are assigned to the **Operations Section** and the most hazardous activities are carried out there. Because of this, it is necessary to carefully monitor the functions and resources within this section to manage span of control.

The following supervisory levels can be added to help manage span of control and the Operations Section:

- Divisions are used to divide an incident geographically.
- Groups are used to divide functional areas of operation.
- Branches are used when the number of Divisions or Groups extends the span of control and can be either geographical or functional. Within Branches:
 - Unit That organization element having functional responsibility for incident, logistics, or finance/administration activity.
 - Task Force A group of unlike single resources assigned to complete certain tactical assignments.
 - Strike Team Similar to a Task Force but comprised of the same kind and type of resources to complete tactical assignments.

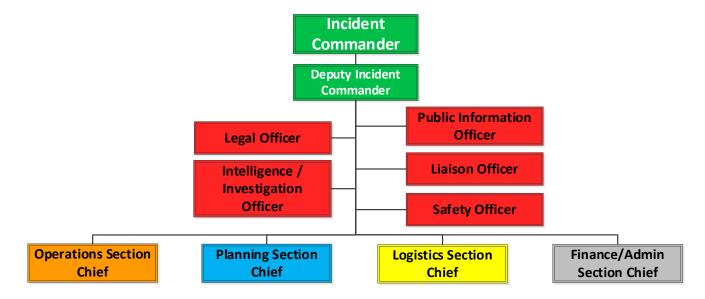
Within the Operations Section, roles are titled and determined based on function. Suggestions for additional roles can be found in the Field Operator's Guide, Emergency Operations Centre and/or in the following Organizational Charts. These roles include, but are not limited to:

• Recovery and Protection, Repair, Air Operations, and Wildlife.

For more information on specific IMT roles, refer to the PMC IMH.



2.2.1 IMT Organizational Structure



NOTE: All of the roles **do not** need to be filled. The organization should be customized for each incident, based on the complexities of the incident and the objectives established for the operational period.



Corporate Strike Team (CST)

2.3 CST Organization

The Corporate Strike Team (CST) is comprised of enterprise-wide personnel that respond to the local incident scene and directly support the on-site Incident Management Team through the Incident Command Structure (ICS).

The CST is responsible for communicating and coordinating activities through the Responsible Party Incident Commander (RPIC).

2.3.1 CST Organizational Structure

Corporate Crisis Management Team (CCMT)

- Functional Roles
- Subject Experts

Incident Management Team (IMT)

- Command Staff
- General Staff
- Subject Matter Experts



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Corporate Crisis Management Team (CCMT)

2.4 CCMT Organization

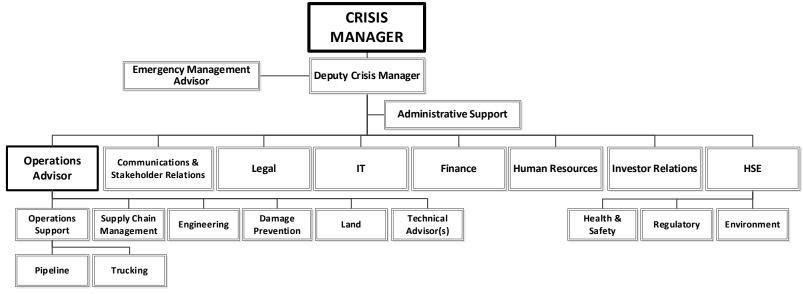
The PMC emergency response framework is comprised of response organizations that work in conjunction with one another and are in regular communication. The Corporate Crisis Management Team (CCMT) is based in Calgary and Houston Emergency Operations Centres (EOC). The CCMT is managed by the Operations Advisor and comprised of Calgary Corporate personnel. Key Responsibilities include:

- Supporting the IMT, by managing long term impacts and business continuity.
- Executive Advisor communicates and reports to the Crisis Management Team at the PMC Head Office.

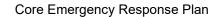
CCMT leadership is comprised of:

- CCMT Command Staff: Crisis Management, Deputy Crisis Manager, Emergency Management Advisor and Administrative Support
- CCMT General Staff: Operations Advisor Communications & Stakeholder Relations, Legal, IT, Finance, Human Resources, Investor Relations and HSE.

2.4.1 CCMT Organizational Chart



NOTE: This is a sample only and an Organizational Chart will be customized for each incident.





2.5 Corporate Crisis Manager

Role Description

The Corporate Crisis Manager (CCM) is the overall leader and decision maker for the CCMT, tasked with overseeing all operational and communications response actions to ensure cross- functional coordination. The CCM interacts and provides input from the CCMT to make key decisions that support the crisis response and how that response will be communicated to stakeholders. The CCM will determine the CCMT roles that need to be activated to respond to a particular crisis; not all roles will be activated for every crisis. The CCM is authorized to take urgent measures on behalf of the corporation as circumstances warrant.

V	Response Actions	Comments
	Determine the Crisis Management level (i.e. Alert, Virtual CMT and Crises) and who should be alerted and/or assembled.	
	Activate Corporate Emergency Operations Center (CEOC) (if required) on the 19th floor or Alternate location (Appendix B).	
	Notify CCMT Advisors. Relay the nature of the crisis and all known facts (i.e. where, when, what, etc.) to all parties.	
	With insight from members of the CCMT develop overall crisis response objectives and strategies.	
	Review and approve all public materials and news releases. Liaise with Communications and Stakeholder Relations Advisor for counsel and insight on public affairs and communications matters.	
	Call to order and chair all CCMT Meetings.	
	Ensure that the CCMT is properly staffed.	
	Assign critical tasks and receive updates on progress or completion.	
	Work with Deputy Crisis Manager and Operations Advisor to ensure 24- hour operations capability.	
	Ensure HSE - Environmental Advisor and HSE - Regulatory Advisor has identified and prepared any additional personnel that will need to interface with federal, state or local officials.	
	Review the need for additional resources beyond the capabilities of the CCMT.	
	Provide situation updates to the Board of Directors and key stakeholders as necessary.	
	Maintain appropriate documentation of actions and decisions throughout the incident	
V	Post-Crisis	Comments
	Support business continuity and continuity of operations as necessary.	
	Conduct post-crisis evaluation of the performance of the CCMT from both an operational and communications perspective.	
	Ensure plans and procedures are updated and revised with lessons learned.	



2.6 Deputy Crisis Manager

Role Description

The Deputy Crisis Manager assists the Corporate Crisis Manager (CCM) in leadership of the CCMT. The Deputy Crisis Manager is responsible for coordinating and executing the decisions of the CCM and the actions of the other CCMT members.

V	Response Actions	Comments
	With the Corporate Crisis Manager (CCM), determine which CCMT members should be notified and whether they should be (a) only alerted or (b) alerted and assembled.	
	Liaise with HSE Advisors to ensure the CCMT is informed of all developments.	
	Call to order and chair all CCMT meetings with the Crisis Manager	
	Take notes at CCMT meetings and prepare status updates.	
	Note assignments to the CCMT members and check to see that deliverables are met.	
	Request appropriate research of support services from the various CCMT members.	
	Communicate with the HSE – Environmental Advisor and HSE - Regulatory Advisor to remain informed on all regulatory interaction and evaluate all communications with regulatory agencies.	
	Review and approve all public materials and news releases for technical accuracy. Liaise with Investor Relations and Communications Group for counsel and insight on public affairs and communications matters.	
	Maintain appropriate documentation of actions and decisions throughout the incident	
	With the Corporate Crisis Manager (CCM), determine which CCMT members should be notified and whether they should be (a) only alerted or (b) alerted and assembled.	
V	Post-Crisis	Comments
	Ensure that Corporate Emergency Operations Center (CEOC) is restored to "ready" status as soon as possible following team demobilization.	
	Work with employees, vendors and consultants to restore normal business operations.	
	Assist in post-crisis evaluation.	



Role Description

The Corporate Crisis Manager (CCM) is the overall leader and decision maker for the CCMT, tasked with overseeing all operational and communications response actions to ensure cross- functional coordination. The CCM interacts and provides input from the CCMT to make key decisions that support the crisis response and how that response will be communicated to stakeholders. The CCM will determine the CCMT roles that need to be activated to respond to a particular crisis; not all roles will be activated for every crisis. The CCM is authorized to take urgent measures on behalf of the corporation as circumstances warrant.

V	Response Actions	Comments
Ø	Post-Crisis	Comments



2.7 **Operations Advisor**

Role Description

The Operations Advisor acts as the communications link between the CCMT and field on-scene personnel. The Operations advisor is also responsible for ensuring site and relief resources needs are met (housing, food, water, etc.). Additionally, the Operations Advisor provides operational advice and expertise to the CCMT.

V	Response Actions	Comments
	In coordination with the Corporate Crisis Manager (CCM) and Administrative Support, ensure that the Corporate Emergency Operations Center (CEOC) is operational.	
	Establish and maintain communications with affected facility, District directors, and/or affected business units.	
	Obtain status of incident situation, responding agencies and contractors, current response actions (planned or in-progress), and proposed or implemented strategies from the local response team. Immediately update CCMT with any developments.	
	Respond to requests for technical or logistical support for the incident response and coordinate with CCMT and Administrative Support.	
	Provide information to the CCM, Legal Advisor and Communications and Stakeholder Relations Advisor to draft media communications.	
	Coordinate preparation of the Situation Log (SECTION 4.3) with Administrative Support, which provides running documentation of crisis developments, as well as, actions taken by CCMT members. Ensure the Situation Log is updated regularly and shared with the CCMT.	
	Define a schedule for regular status updates with CCM and on-scene RPIC. Provide status updates to CCMT per defined schedule (SECTION 4.3 Meeting Schedule).	
	Maintain appropriate documentation of actions and decisions throughout the incident. (SECTION 4.3 Individual Log)	
	 Ensure the following plans are completed and communicated to the appropriate agencies and internal personnel: a) Repair Plan b) Pre-start Up Test Plan c) Start Up Plan 	
	Coordinate with HSE - Environmental Advisor and HSE - Regulatory Advisor to respond to agency request and reporting requirements (ex. request for volumes lost and recovered) and update accordingly.	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
V	Post-Crisis	Comments
	Assume responsibility for collection and archiving of all CCMT documentation. Enlist the assistance of Administrative Support staff as necessary.	
	Assist in post-crisis evaluation.	



2.8 Communications and Stakeholder Relations Advisor

Role Description

The Communications and Stakeholder Relations Advisor assists the Corporate Crisis Manager and Deputy Crisis Manager with media, public, unit holders, Board of Directors and employee's communications. Utilize the Crisis Communications Manual for detailed media strategy, templates, and additional resources.

V	Response Actions	Comments
	Report to Corporate Emergency Operations Center (CEOC) and work with Corporate Crisis Manager (CCM) and Deputy Crisis Manager to begin gathering pertinent data regarding the incident.	
	Based upon the severity of the incident, develop a strategy for communicating the incident and for media response or refer to the Cyber Incident Response Plan (CIRP).	
	Draft key messages that will be shared externally based on the information gathered.	
	Once the initial messaging is developed, work with CCM, Operations Advisor, Legal Advisor, Executive team and any others to seek appropriate approvals.	
	Use approved key messages to deliver appropriate communication tactics to reach affected external stakeholders.	
	Determine the appropriate tactics for disseminating additional messages externally based on the severity of the incident.	
	If the severity of the incident warrants, activate the Plains emergency dark website.	
	Based on the severity of the incident, enlist and manage outside public relations/communications vendors for assistance.	
	Work with CCM, Deputy Crisis Manager, and on-scene Communications Public Affairs Group personnel to determine the need and frequency of subsequent external messaging.	
	Maintain appropriate documentation of actions and decisions throughout the incident	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
Ø	Post-Crisis	Comments
	Complete internal review of Communications and Stakeholder Relations Advisor activities including Crisis Communications Manual.	
	Assess public and media reaction to crisis and the efficacy of communications response.	
	Assist in post-crisis evaluation.	



2.9 Emergency Management and Security Advisor

Role Description

The Emergency Management and Security Advisor acts as the advisor to the Corporate Crisis Manager (CCM) in aspects of the field emergency response and provides Emergency Management and Corporate Strike Teams (CST) to support the ongoing field response. Emergency Management is to support the Incident Command Structure (ICS) and ensure communications between the field response and the Corporate Emergency Operations Center (CEOC) is established. Additionally, the Emergency Management and Security Advisor provides communications support during media press conferences.

V	Response Actions	Comments
	In coordination with the Corporate Crisis Manager (CCM) and Administrative Support, ensure that the CEOC is operational and institute security measures by coordinating with the building security/management as necessary.	
	Activate the Emergency Response and Security Management team and CST as required.	
	Obtain status of incident situation, responding agencies and contractors, current response actions (planned or in-progress), and proposed or implemented strategies from the local response team in order to facilitate CST transition to ICS positions. Immediately update CCMT with any developments.	
	Ensure communications between field response software (PrepareRespondTM) and the CCMT.	
	Respond to requests for technical or logistical support for the incident response and coordinate with CCMT and Administrative Support.	
	Provide information to the CCM, Legal Advisor, and Communications and Stakeholder Relations Advisor to draft media communications.	
	Maintain appropriate documentation of actions and decisions throughout the incident. (SECTION 4.3 Individual Log)	
	Ensure only CCMT Members and other authorized personnel are admitted in the CEOC during an event.	
	Heightened building security procedures may be established, especially if the incident involves security concerns, acts of terrorism or significant media interest. Building security should be instructed to report all suspicious activity directly to the CCMT Security Advisor.	
	Provide security escorts for CCMT Members within the facility, if deemed necessary by the CCMT Security Advisor.	
	Monitor any suspicious activities in or around Crisis Management Center facilities and report to appropriate company personnel or to the proper authorities.	
	Assign additional personnel to provide security at the Media Center and CEOC during press conference.	
	Badge Systems – if necessary the CCMT – Security Advisor may consider implementing an entry badge process, using existing employee badges or other forms of identification, to positively identify all personnel who enter the CEOC. This will typically require the presence of one or more security guards in the CEOC to manage this process.	
	Liaise with local law enforcement if applicable.	



2.10 Legal Advisor

Role Description

The Legal Advisor will evaluate all incoming information and advise the Corporate Crisis Management Team (CCMT) with respect to legal implications of the emergency. The Legal Advisor is responsible for legal review of all communications materials. In addition, the Legal Advisor will work closely with those responsible for monitoring the activities of and interactions with any regulators, elected officials or law enforcement personnel, whether they are local, state or federal. This person must be readily available in all crisis situations and have the ability to evaluate the legal ramifications of any decisions made by the CCMT.

V	Response Actions	Comments
	Evaluate legal implications of emergency and advise Corporate Crisis Manager (CCM) of steps necessary to ensure that the company fully complies with applicable laws, rules, and regulations while appropriately mitigating potential legal issues and company exposure/risk.	
	Review and approve all public materials and news releases. Liaise with Communications and Stakeholder Relations Advisor for counsel and insight on public affairs and communications matters.	
	Work with insurance group to ensure that notifications to carriers are made and that appropriate steps are taken to facilitate timely submission of claims to insurers.	
	Review appropriate documentation to determine whether claims can be made against other parties to recover costs.	
	Determine if any SEC or NYSE filings are required, and if required, prepare and make such filings. Also determine whether any ongoing capital market activity should be suspended and/or deferred.	
	Determine whether any contract counterparty notices or other communications are required (i.e., triggered by the incident) or desirable.	
	Ensure that proper "litigation hold" notices are sent to all involved personnel providing them with appropriate instructions regarding the	
	Establish appropriate process to receive/administer claims against the company arising from the incident.	
	 Review documentation and incident records. Establish necessary protocols to maintain attorney-client privilege. a) Work with HSE – Environmental and HSE - Regulatory Advisors to ensure that any NRC or other required notifications have been made on a timely basis b) ensure that the company complies with all environmental, safety and other rules and regulations applicable to the incident and c) coordinate communications with appropriate elected/appointed officials, industry groups, commissions and agencies. 	
	Engage, and share documents with, external counsel, as needed.	



Ø	Response Actions	Comments
	Gather and preserve appropriate documentation of actions taken and decisions made during the period of time leading up to and including the incident.	
	Document the event and any responsive actions taken as needed for liability and risk management purposes.	
	Work with CEO and others as necessary to facilitate any required or necessary communications with the Board of Directors or any of its committees.	
	For Cyber Incidents – Make all necessary notifications and follow applicable procedures set forth in the Cyber Incident Response Plan.	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
V	Post-Crisis	Comments
	Assist with post-crisis evaluation of performance of the CCMT.	
	Support efforts to restore normal business.	



2.11 HSE – Health and Safety Advisor

Role Description

The HSE – Health and Safety Advisor will provide safety and security support for the field response, the Corporate Emergency Operations Center (CEOC) and Corporate Crisis Management Team (CCMT).

V	Response Actions	Comments
	Set up and manage safety and security needs for the CEOC.	
	Advise the CCMT regarding safety and security liability and compliance issues.	
	Determine which safety and security resources are needed to support the event.	
	Identify the need for and coordinate any corporate or outside safety and security assistance.	
	Advise the CCMT regarding safety and security equipment operations.	
	Counsel the CCMT regarding site locations and any safety and security hazards.	
	Support the on-scene Safety Officer as required.	
	Provide regular updates to the CCMT of all safety and security developments and activities to ensure all parties are up to speed.	
	Review communications materials from the Communications and Stakeholder Relations Advisor to ensure accuracy with regards to safety and security matters.	
	Coordinate and if appropriate obtain and manage pictorial documentation of crisis (print, video) recognizing that documentation may be subject to discovery.	
	Develop and implement the Incident Investigation Plan.	
	Obtain status of on-scene humanitarian/medical support and advise Corporate Crisis Manager.	
	Maintain appropriate documentation of actions and decisions throughout the incident	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
V	Post-Crisis	Comments
	Assist with post-crisis evaluation of performance of the CCMT.	



2.12 HSE - Environmental and Regulatory Advisor

Role Description

The HSE - Environmental and Regulatory Advisor assists the Corporate Crisis Management Team (CCMT) with communications between local, state and federal regulators and serves as chief liaison between Plains' and affected government-related groups. The HSE – Environmental and Regulatory Advisor will advise and support response activities addressing environmental issues.

V	Response Actions	Comments
	Assess how the crisis affects government and government-related groups and ensure that appropriate outside organizations are involved in communicating the crisis as necessary.	
	Coordinate interaction with federal and state environmental and DOT regulatory agencies.	
	Ensure that all crisis response operations are compliant with environmental and DOT regulatory requests.	
	Ensure that all messaging in any government or regulatory communications is consistent with the overall communications strategy.	
	Maintain lists of all key government and regulatory contacts that include the name, agency affiliation, return telephone numbers, email address and a brief description of previous interactions.	
	Schedule any briefings between government or regulatory agencies and the CCMT or senior management and provide feedback to CCMT on trends and message efficacy.	
	Coordinate all activities with Legal Advisor as necessary.	
	Inform the Communications and Stakeholder Relations Advisor, Regulatory Advisor and Legal Advisor about status of cleanup operations and environmental impacts.	
	Provide guidance and support to the onsite Environmental Unit Leader regarding any environmental issues such as wildlife recovery, remediation, waste disposal, and environmental resources at risk.	
	Ensure that emergency sampling and environmental survey procedures are being properly implemented, and that the resultant information is available to the appropriate regulators and emergency response personnel.	
	Assess the impact of various response techniques on the environment.	
	Maintain appropriate documentation of actions and decisions throughout the incident	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
V	Post-Crisis	Comments
	Assess government and regulatory reaction to crisis and the efficacy of communications response with these audiences.	
	Assist in post-crisis evaluation.	



2.13 Information Services Advisor

Role Description

The Information Services Advisor is responsible for providing the technical resource needs of the Corporate Emergency Operations Center (CEOC) and on-scene response.

V	Response Actions	Comments
	Assess the technology needs of the CEOC. Ensure that all phone and computer resources are set-up accordingly.	
	Assess needs for electronic documentation control and data requirements.	
	Assist the Communications and Stakeholder Relations Advisor lead in the development of the response website and related items (creation of email addresses, distribution lists, etc.)	
	Work with the On-Scene Response Personnel to ensure that IT needs are met.	
	Provide IT support services throughout the duration of the incident.	
	Maintain appropriate documentation of actions and decisions throughout the incident	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
V	Post-Crisis	Comments
	Assess the crisis response from an IT perspective. Identify areas where the CCMT could improve in terms or preparedness or response.	
	Assist in post-crisis evaluation.	



2.14 Finance Advisor

Role Description

The Finance Advisor is responsible for ensuring capital resources are available to the Corporate Crisis Management Team (CCMT) and the site level response teams. The Finance Advisor keeps the Corporate Crisis Manager (CCM) informed of the expected and projected costs of the crisis.

V	Response Actions	Comments
	Coordinate capital resources to support the crisis management response.	
	Communicate to the CCMT current and projected financial commitments.	
	Define financial cost tracking needs with CCM.	
	Receive continuous updates from the on-scene financial group.	
	Ensure claims reporting system is functioning and update the CCMT with all claims activity.	
	Provide procurement resources to expedite field resource needs.	
	Maintain appropriate documentation of actions and decisions throughout the incident.	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
V	Post-Crisis	Comments
	Assess the financial impact of the crisis response.	
	Assist in post-crisis evaluation.	



2.15 Investor Relations Advisor

Role Description

The Investor Relations Advisor assists the Corporate Crisis Management Team (CCMT) and Investor Relations and Communications Group with all investor and analyst communications and serves as chief liaison between Plains and the investment community.

V	Response Actions	Comments
	Assess how unit holders, the financial community and industry analysts will perceive the crisis.	
	Coordinate with the Communications and Stakeholder Relations Advisor to ensure that needed investor messaging is included in the Communications team talking points that are approved through mgmt.	
	Maintain a call log to document all incoming inquiries from the financial community (investors, analysts, etc.) related to the incident. Call log to include name, affiliation, contact info, and a "Comment" section to briefly summarize interactions on the issue.	
	Schedule any necessary briefings between investors or analysts and senior management.	
	Provide feedback to CCMT on any FAQs, topics of focus in the investor community as it pertains to the incident, the ongoing crisis response or communications strategy.	
	Coordinate investor disclosure with Legal group as necessary to maintain compliance with Reg FD.	
	Maintain appropriate documentation of actions and decisions specific to the incident	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
V	Post-Crisis	Comments
	Assess investor and analyst reaction to crisis and the efficacy of the communications response with these audiences.	
	Assist in post-crisis evaluation.	



2.16 Supply Chain Advisor

Role Description

The Supply Chain Advisor will evaluate all incoming information and advise the Corporate Crisis Management Team (CCMT) with respect to resources committed to the field response and ensure that any contractual or master service agreement documentation is in place. Additionally, assist the field response team in the acquisition of additional resources necessary to efficiently and effectively mitigate the incident.

V	Response Actions	Comments
	Support the field response Logistics Section Chief with the acquisition of resources necessary to manage the incident.	
	Review and approve service contracts and master service agreements for responding contractor service providers working on the incident scene.	



2.17 Administrative Support

Role Description

The Administrative Support staff works in close synchronization with the Corporate Crisis Manager (CCM) and the Operations Advisor to assist in the overall crisis response execution.

V	Response Actions	Comments
	Initiate the Check-in / Out Log.	
	Document current actions on the Situation Log.	
	Manage routine requests and provide documentation to CCMT.	
	Assist Operations Advisor with ensuring that the Corporate Emergency Operations Center (CEOC) has all necessary supplies.	
	Tracking assigned tasks to CCMT on Open Action Tracker form.	
	Maintain appropriate documentation of actions and decisions throughout the incident.	
V	Post-Crisis	Comments
	Evaluate administrative function performance as a member of the CCMT.	
	Provide support to CCMT members to help restore normal business as required.	
	Process CCMT documentation as directed by Corporate Crisis Manager (CCM). Provide copies of documentation to CCMT members as requested.	

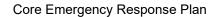


2.18 Engineering Advisor

Role Description

Coordinates and provides documentation to the Corporate Crisis Management Team (CCMT) and onscene response regarding equipment integrity, asset integrity testing, analyzing data sets, spill calculations, development of repair, pre-startup testing, and startup plans.

V	Response Actions	Comments
	Work with HSE- Environmental and HSE - Regulatory Advisors to complete regulatory documentation.	
	Review In-Line-Inspection (ILI)/Hydrotest data and document technology changes from one data set to another, as requested.	
	Liaise with Legal Advisor regarding documentation provided to regulatory agencies.	
	Liaise with on-scene Operations and the CCMT Operations Advisor in the development of the repair plan.	
	Liaise with on-scene Operations and the CCMT Operations Advisor with development of the pressure test plan.	
	Liaise with on-scene Operations and the CCMT Operations Advisor with development of the restart plan	
	Maintain appropriate documentation of actions and decisions throughout the incident	
	Liaise with Communications and Stakeholder Relations Advisor to provide statistical data to assist with completion of media communications.	
	Work with the Control Center to review historical data to recreate incident as requested.	
	Assist the Engineering – Technical Services group to collect and analyze data to determine product volume lost.	
	Support development of pre-startup testing and startup plans.	
	Coordinate the selection of a third party failure analysis firm, if necessary.	
	Oversee and coordinate third party failure analysis field work, if necessary.	
	Liaise with third party investigator, PHMSA and Environmental.	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
Ø	Post-Crisis	Comments
	Review operational processes for areas of improvement.	
	Assist in post-crisis evaluation.	





2.19 Human Resources Advisor

Role Description

The Human Resources Advisor will be responsible for monitoring needs of employees affected by the incident and closely connected audiences, such as employee families. Human Resources Advisor should be involved in the development and review of communications intended for employees during the incident. The Human Resources Advisor should be fully knowledgeable of all means of internal communication within Plains.

V	Response Actions	Comments
	Liaise with Communications and Stakeholder Relations Advisor to	
	determine the most effective means to communicate information to employees.	
	Liaise with HSE Advisors to follow-up with information regarding the	
	disposition of injured employees and contractors.	
	Appoint support team members to monitor internal sources for	
	rumors that require an immediate response and report to the	
	Corporate Crisis Management Team (CCMT). Assist with monitoring employee questions and developing	
	appropriate responses.	
Π	Determine employee support requirements for Plains personnel and	
	non-company on-site personnel affected	
	Evaluate the need and provide appropriate counseling services to assist affected employees.	
	Maintain appropriate documentation of actions and decisions throughout the incident	
	In case of cyber incident, refer to the HR Cyber Incident Response	
	Plan (CIRP). Refer to Business Continuity Plan's Temporary Operating Procedures	
	for further guidance.	
Ø	Post-Crisis	Comments
	Assist in post-crisis evaluation as it pertains to the services provided to impacted employees.	



2.20 GIS Support

Role Description

GIS Support Advisor is responsible for providing mapping and geographical information system resources to the Corporate Crisis Management Team (CCMT) and the on-scene response.

V	Response Actions	Comments
	Produce incident response maps to provide a picture of the area to be displayed in the Corporate Emergency Operations Center (CEOC).	
	Update data sets with current regulatory agency information.	
	Liaise with Communications and Stakeholder Relations Advisor to provide mapping services for media communications.	
	Liaise with On-Scene Response Personnel to provide mapping, predefined tactics and strategies.	
	Liaise with Engineering – Asset Integrity to provide risk ranking and In Line Inspection (ILI) dataset information.	
	Liaise with field response personnel and contractors to acquire data to update current situation map.	
	Maintain appropriate documentation of actions and decisions throughout the incident	
	Coordinate mobile data collection.	
	Refer to Business Continuity Plan's Temporary Operating Procedures for further guidance.	
Ø	Post-Crisis	Comments
	Review and update internal datasets.	
	Assist in post-crisis evaluation.	
	Provide post incident data documentation and delivery as requested.	



2.21 Gathering / Marketing (Trucking) Advisor

Role Description

The Gathering / Marketing Trucking Advisor

V	Response Actions	Comments
	Evaluate implications of emergency and advise CCM on steps necessary to mitigate business impact.	
	Determine potential impact to our customers.	
	Establish and maintain appropriate level of communication to customer and employees.	
	Respond to request for operational or trucking support for incident response and coordinate with CCM.	
	Evaluate contractor support as needed and coordinate with Tier contractors.	
	Continually provide updates to CCMT.	
	Maintain appropriate documentation of actions and decisions throughout the incident	
V	Post-Crisis	Comments
	Review operational processes for areas of improvement.	
	Assist in post-crisis evaluation.	



2.22 Cyber Security Advisor

Role Description

Cyber Security Advisor will provide appropriate support, monitoring and investigation based on business or SCADA systems affected by or associated with an incident.

V	Cyber Incident Response Actions	Comments
	Report initial incident findings to Legal Advisor, Corporate Crisis Manager (CCM) and Executive team.	
	Activate support staff and/or subject matter experts (SME's) as necessary or as directed by CCM.	
	If the severity of the incident warrants, contact Information Services Advisor activate forensic environment.	
	Gather and preserve appropriate documentation of actions taken and decisions made during the period of time leading up to and including the incident.	
	Work with CCM and Deputy Crisis Manager to provide regularly scheduled updates regarding the incident.	
	If the severity of incident warrants, Liaise with Operations Advisor to ensure site and relief resources are met (housing, food, water, etc.).	
	Maintain appropriate documentation of actions and decisions throughout the incident.	
V	Non-Cyber Incident Response Actions	Comments
	Provide assistance to Corporate Crisis Manager (CCM) and/or Deputy Corporate Crisis Manager as directed.	
	Liaise with Security Advisor to provide assistance with physical access to Corporate Emergency Operations Center (CEOC) and reporting during an incident.	
	Liaise with IT Advisor to provide cyber security support as needed.	
	Increase monitoring of systems and alerts.	
V	Post-Crisis	Comments
	Complete internal review of IT Department Cyber Security plan.	
	Assist in post-crisis evaluation.	



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SECTION 3: Responder Safety and Public Protection

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SECTION 3: Responder Safety and Public Protection

3.1 Introduction

Beyond meeting regulatory requirements, the primary purpose of an Emergency Response Plan (ERP) is to clearly define the framework, tools and procedures that facilitate the ability of PMC personnel to respond safely, quickly, consistently and effectively to operational and non-operational incidents.

PMC's incident priorities in order of importance are:



The key goals of the ERP are to:

- Protect the safety of the public, personnel (all responders including contractors), the environment and property.
- Provide personnel with established procedures to respond to an emergency.
- Provide personnel with access to critical information required to respond to an emergency.
- Eliminate or minimize the effects that incidents have on PMC operations.

3.2 Responder Safety

An essential element to effectively and safely responding to any incident is the establishment of responder safety/ site control zones. These zones are established by the Incident Commander or Safety Officer to:

- Ensure responder safety by limiting access to authorized personnel based on the risk(s) posed within the zone.
- Reduce the accidental spread of hazardous substances by workers and responders.
- Reduce exposure to hazards through restricted access and appropriate mitigative measures including but not limited to personal protective equipment (PPE).

Responder safety zones specify:

- The type of operations that can occur in each zone;
- The degree of hazard(s) at different locations within the incident site/impacted area; and
- The areas at the incident site that should be avoided by unauthorized or unprotected employees.

It is impossible to determine the responder safety zones before an incident occurs as they are specific to the incident and its location and must be identified based on site specific hazards. The incident will most likely include the definition of the Support and Exclusion zones and possibly the Contamination Reduction zone, as required. An additional Decontamination Corridor may also be defined for personnel and equipment to safely enter and exit the incident site, as well as remove any harmful chemicals or infectious organisms that may have adhered to them. The responder safety zones are defined specifically for each incident based on the nature and severity, as approved by the Incident Commander.



The three most frequently identified zones include:

1. The **Exclusion (Hot) Zone** is the area with actual or potential contamination and the highest potential for exposure to hazards. This is where the incident is taking place and where people, the environment, and/or property are at risk. The Incident Commander must clearly define the Hot Zone through analysis of available information. The Hot Zone must be clearly defined and marked to prevent unauthorized entry.

This Zone has the highest life safety hazard and therefore extreme caution, planning and protection needs to be taken prior to entry. Typically, the Hot Zone will be extended on the downwind side.

When determining the size of the Hot Zone, consider the following:

- Results of vapour monitoring;
- Location of vapour plume and potential direction of drift as well as the footprint of spilled product and it's possible trajectory;
- Location of access routes, power lines, other buried infrastructure such as pipelines
- Areas where vapours are likely to accumulate (downwind, low-lying areas, confined spaces, etc.)
- Site stability (steep slopes, overhanging banks, unstable soil, thin ice, flooding, etc.)
- Weather conditions
- Toxicity and/or evacuation data for product involved (refer to the MSDS and ERG 2016)

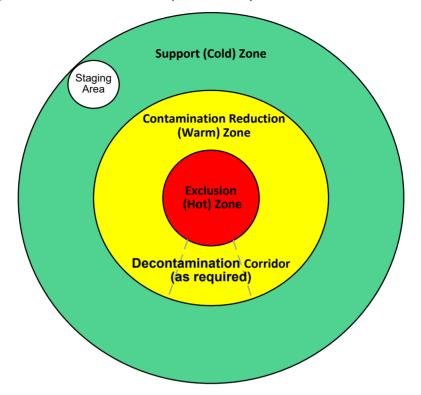
When addressing public safety, this zone must be evacuated of non-authorized personnel.

- 2. The Contamination Reduction (Warm) Zone is the transition area between the Exclusion (Hot) and Support (Cold) Zones. This area is where responders and equipment enter and exit the Hot Zone and where decontamination activities take place, as applicable. The Warm Zone must be clearly defined and marked to prevent unauthorized entry and typically be located uphill and upwind from the emergency site. If the emergency escalates, the Hot Zone could expand to include the Warm Zone.
- 3. The **Support (Cold) Zone** is the area near the site that is free from contamination and may be safely used for support services and facilities, including staging areas. The Cold Zone is where tactical responders will assemble prior to responding to the incident. No PPE is required to operate in the cold zone. The Cold Zone where responders are working must have clearly defined boundaries to prevent unauthorized access during the incident response.

When addressing public safety, members of the public outside of the working area are not at risk but awareness of changing conditions require planning in the event the risk to public safety escalates.



The following diagram illustrates the three Responder Safety Zones.



3.3 Emergency Planning Zone Determination

3.3.1 Emergency Planning Zone

The Emergency Planning Zone (EPZ) is a geographical area surrounding a well, pipeline, or facility containing hazardous product that requires specific emergency response planning. Responses for public protection in this area can include shelter-in-place, evacuation, and release ignition. All personnel must ensure they are familiar with the size of the EPZ.

Whereas the EPZ is used for planning purposes and reflect an area where significant exposure could result without prompt action, actual conditions during an incident need to be assessed to ensure an appropriate initial response. The response zones are where resources are focused during an incident to protect public safety.

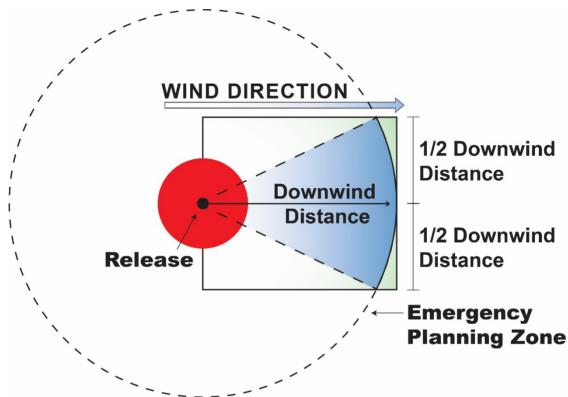
Calculating EPZs for Hydrogen Sulphide (H₂S or Sour Gas)

PMC determines EPZs using the applicable methodology as per provincial requirements industry and program standards. For example, in Alberta wells, facilities and pipelines that either produce or transport hydrogen sulphide (H₂S) have EPZs calculated by the ERCBH2S software program.



Calculating EPZs for HVP Product

The primary hazard associated with high vapour pressure (HVP) products is direct exposure to flame. The largest hazard area for emergency response planning is based on a flash fire. HVP pipeline EPZs are calculated using a standard industry table such as the *CAPP Companion Planning Guide to ERCB (now called the Alberta Energy Regulator) Directive 071* or by conducting plume dispersion modelling specific to the asset.



NOTE: Initial isolation and protective action zones are outlined for illustration purposes only.

3.3.2 Initial Isolation Zone

The Initial Isolation Zone (IIZ) defines an area in proximity to a continuous hazardous release where the public may be exposed to toxic concentrations of release, and sheltering may provide limited protection. All evacuation efforts must be initially focused in this zone.

3.3.3 Protective Action Zone

The estimated size of the Protective Action Zone (PAZ) is calculated using ERCBH2S modelling. Immediately following a release of the H_2S or HVP product, the approximate size and direction of the PAZ can be determined using actual conditions at the time.

The PAZ is based on current wind conditions, the product released and other factors. The PAZ is an area downwind of a hazardous release where outdoor pollutant concentrations may result in life threatening or serious and possibly irreversible health effects on the public. The PAZ is the area within the EPZ in which parties may be at most risk of exposure during an incident, and it is intended to assist responders to focus and prioritize their emergency response efforts there.



To determine the size of the response zones, response personnel should approach the perimeter of the response zone cautiously so as not to exceed personal exposure limits and begin monitoring with handheld equipment at the nearest residence to the outer perimeter.

From this location the response personnel should continue to approach any additional downwind residences that may be closer to the release until the outer boundary of the response zone is validated.

3.4 Isolation of the Emergency Planning Zone

PMC may be required to establish and manage manned roadblocks in order to prohibit unauthorized entry into the response zones. It may also become necessary to obtain a fire hazard order, NOTAM, or to declare a state of local emergency to restrict access to a designated area.

- **Roads** Roadblock personnel can set-up roadblocks on lease roads. The local authority must authorize the roadblocks on public roads within the municipality. Provincial Transportation Authority must authorize road closures on Provincial highways. Municipal personnel may assist with maintaining roadblocks during an emergency response.
- **Trails** Access to trails may be restricted with roadblock personnel and/or municipal or provincial personnel.
- **Railroads** CN, CP or private railroad companies will need to be notified of the situation and will stop or relocate rail traffic.
- **Rivers** Rivers may need to be monitored to ensure that recreational users do not travel into the EPZ. This may be accomplished by working with municipal, provincial or private companies.
- **Air** Notification to NAV Canada may be required to issue a Notice to Airmen (NOTAM) to advise pilots of airspace restrictions above the EPZ.

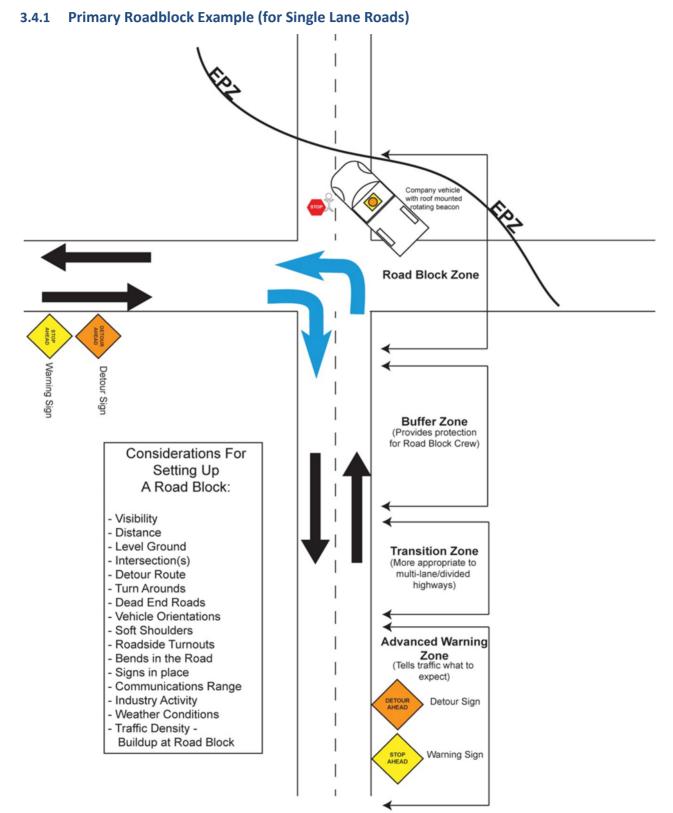
Roadblocks can be staffed by:

- PMC personnel
- Contracted personnel
- RCMP/Police
- Fire Department
- Municipal representatives

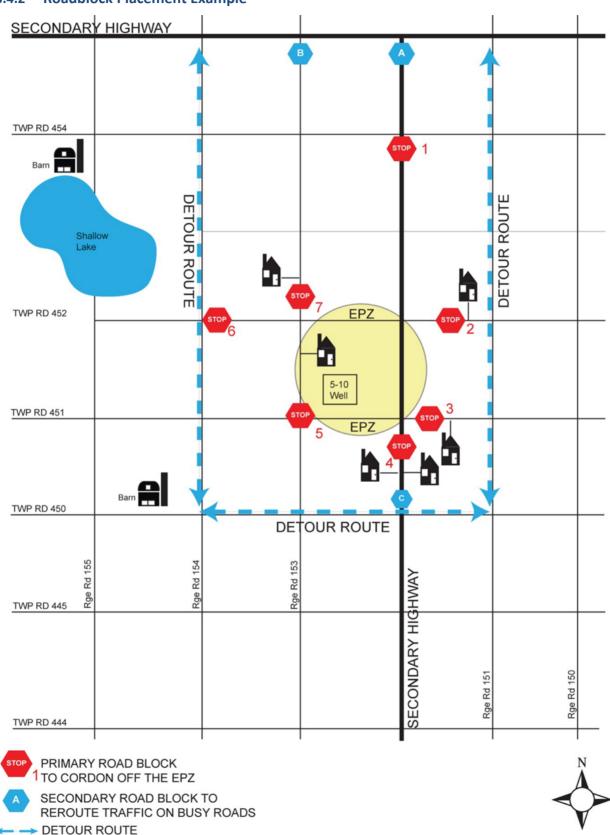
Roadblock personnel stationed at the roadblock locations will be equipped with the appropriate PPE. Roadblock Units shall restrict access into the area to authorized personnel only and maintain a record of persons entering or exiting the EPZ.

Persons allowed entry into the area will be checked in, briefed on the existing conditions and equipped with the appropriate PPE.











3.5 Air Quality Monitoring

Air quality monitoring is used to track and record the presence, concentrations and lower explosive limit levels (LEL) of hazardous products such as hydrogen sulfide, sulphur dioxide and HVP product following a release.

Air quality monitoring occurs downwind, with priority being directed to the nearest un- evacuated residence or area where people may be present. Detailed records of monitored H_2S and SO_2 information will be kept and provided upon the request.

Air monitoring is used for:

- \Box Tracking an H₂S / SO₂ plume
- □ Determine if ignition criteria is met
- Determine if evacuation or sheltering is required based on criteria
- Determine response zones and roadblock locations
- Determine H₂S / SO₂ concentrations in areas being evacuated to ensure safe evacuation
- Determine if the emergency can be downgraded based on readings
- Determine if response actions need to be taken beyond the EPZ

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

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

Air quality monitoring occurs downwind, with priority being directed to the nearest unevacuated residence or areas where people may be present.

See Section 7 for characteristics of H_2S and SO_2 vapours.

3.6 Evacuation

Within the EPZ, notification and evacuation is based on the risks associated with the release. Evacuation is the primary public protection measure when the public may be exposed to a hazardous situation and can be safely removed from the area. Evacuation begins in the IIZ and expands outward into the PAZ (downwind of the release).

If safe to do so, evacuation should take place before a hazardous situation has the potential to affect people in proximity. Careful consideration will be given to designate the safest evacuation route(s) for personnel and members of the public to evacuate the area

PMC will monitor air quality within the EPZ and surrounding area. Monitoring results will identify areas where evacuation is required. In the absence of monitored readings, responders should advise residents to shelter in place. Typically, residents within the EPZ, but outside of the PAZ, will be contacted and advised to initially shelter in place pending further instructions. PMC will evacuate the public based on air quality results and information gathered from incident assessment. This assessment will include incident



location, wind direction and wind speed, temperature, and geographical features such as rivers and mountains.

A shift in wind direction may require immediate re-evaluation of the PAZ and may prompt the need for additional evacuation and/or sheltering. Ignition will occur if criteria are met. If the release has been ignited, PMC will continue to monitor response zones for hazardous situations.

At an **Alert** or **Level 1** emergency, evacuation is not required; however, all those who requested early notification must be notified of the incident by telephone, personnel or rovers. Evacuation is not mandatory at this level; however, residents may wish to vacate if they so choose. A Reception Centre should be considered at the declaration of a Level 1 in the event that residents wish to vacate the area.

If the potential exists due to deteriorating conditions, or the emergency level has been designated at a *Level* **2** or **3**, evacuation will commence of all residents closest and downwind from the release. This will occur through telephone calls, rover visits and pre-determined roadblock locations.

Evacuation beyond the EPZ

In the unlikely event that public protection measures are required beyond the EPZ, they will be conducted in conjunction with the local authority.

Notification procedures are outlined in the Municipal Emergency Plan (MEP) may be used by the local authority to notify residents outside the EPZ. PMC supports Unified Command. PMC will work with the local authority to determine and execute appropriate public protection measures beyond the EPZ.

H ₂ S Concentrations in Un-Evacuated Areas	Requirements
1 to 10 ppm (3-minute average)	Individuals who requested notification so they can voluntarily evacuate before any exposure to H2S must be notified
Above 10 ppm (3-minute average)*	Local conditions must be assessed and all persons must be advised to evacuate and/or shelter
* If monitored levels over the 3-minute interval are declining (i.e. three readings show a decline from 15 ppm to 10 ppm to 8 ppm	

* 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. PMC will use proper judgment in determining if evacuation is required.

SO ₂ concentrations in Un-Evacuated Areas	Requirements
5 ppm (15-minute average)	Immediate evacuation of the area must take place.
1 ppm (3-hour average)	
0.3 ppm (24-hour average)	

NOTE: PMC can recommend evacuation, but cannot force evacuation of the public. Mandatory evacuations can only be issued by the RCMP/Local RCMP and/or local jurisdiction.



Rovers

Rovers are responsible for travelling and monitoring the EPZ during an emergency situation. Rovers ensure all transients, recreational users, residents and other area users are properly notified and/or evacuated if the situation warrants. Rovers should be equipped with vehicles capable of carrying passengers allowing them to assist in the evacuation of the EPZ. Rovers will also be equipped with the appropriate PPE.

Prolonged Evacuation

If the incident is prolonged, PMC may:

- Provide instructions how to claim for incurred expenses.
- Provide assistance in arranging food and temporary accommodation.
- Provide area security.
- Arrange to replace responders.

Reception Centre

PMC may establish a resident Reception Centre when members of the public are evacuated as a result of a PMC incident. During an evacuation PMC will work together with local authorities and emergency social services to provide care for evacuees at the Reception Centre. Refer to the *IMH* for more information.

Return of Evacuees

Once the emergency is over, the decision to permit the return of persons will be made by the Incident Commander in consultation with regulatory agencies and local authorities.

Refer to the *IMH* for more information.

3.7 Shelter-In-Place

Shelter in place is the practice of going or remaining safely indoors during an outdoor release of a hazardous substance.

Shelter in place has been demonstrated to be an effective response during the first few hours of a substance release where public would be at the highest risk outdoors. Sheltering creates an indoor buffer to protect an individual from high concentrations that may exist outside.

The goal of sheltering is to reduce the movement of air into and out of the building until either the hazard has passed or other appropriate emergency actions can be taken.

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 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 PMC representative.



Sheltering indoors is a viable public protection measure when:

- 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 the release has not been identified.
- The public would be at higher risk if evacuated.

3.7.1 Shelter-in-Place Instructions

- □ Immediately gather everyone indoors and remain there.
- □ Close and lock all windows and outside doors. If convenient, tape the gaps around the exterior door frames.
- □ Extinguish indoor wood burning fires. If possible, close flue dampers.
- □ Turn off appliances or equipment that either:
 - Blow out inside air, such as bathroom and kitchen exhaust fans, built-in vacuum systems, gas stoves, gas fireplaces, clothes dryers.
 - Suck in outside air, such as heating ventilation and air conditioning systems (HVAC) for apartments, commercial or public facilities, fans for heat recovery ventilators or energy recovery ventilators (HRV/ERV).
- □ Turn down furnace thermostats to the minimum setting and turn off air conditioners.
- □ Leave all inside doors open.
- Do not use the telephone, except for emergencies, so that emergency personnel can contact you.
- Contact emergency number provided at time of notification if you are experiencing symptoms or smelling odours or if you have contacted local emergency services, this allows responders to coordinate their response.
- □ Stay tuned to local radio and television for possible information updates.
- □ If you see people outside, do not leave until told to do so.
- □ If you are unable to follow these instructions, please contact the emergency number provided at time of notification.

Once the emergency situation has been corrected you will receive an "all-clear" message from the emergency response personnel and advised to:

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

If sheltering procedures are implemented, continuous telephone contact with sheltered individuals will be maintained until a safe evacuation can be conducted or the emergency is resolved.



3.8 Ignition

PMC will monitor the incident continuously and take immediate measures to ignite a hazardous release if criteria are met. Ignition does not negate the need for continuing with evacuation as there may be residual hazards in the area. When gas is ignited, it is carried higher into the atmosphere by the heat of combustion. This causes any toxic gases to disperse over a larger area which will also be monitored.

Ignition discussions between the Incident Commander and the regulatory agency should occur at pre-set intervals until the situation is brought under control. Refer to *3.8.2. Ignition Checklist* for guidance pertaining to igniting a vapour cloud. Any decision to ignite an H₂S plume must be made in conjunction with the regulatory body and the regulatory body should be notified of the ignition of an HVP plume. The following factors should be considered before the decision to ignite proceeds:

- If evacuation is impractical and the health and safety of people are at risk, and therefore the release should be ignited promptly.
- The decision to ignite would be supported or directed by the regulatory agency.

The Incident Commander must utilize the *3.8.1. Ignition Flowchart* and has authority to direct ignition of the release. This may be directed to an external service company or delegated to a qualified and trained company representative.

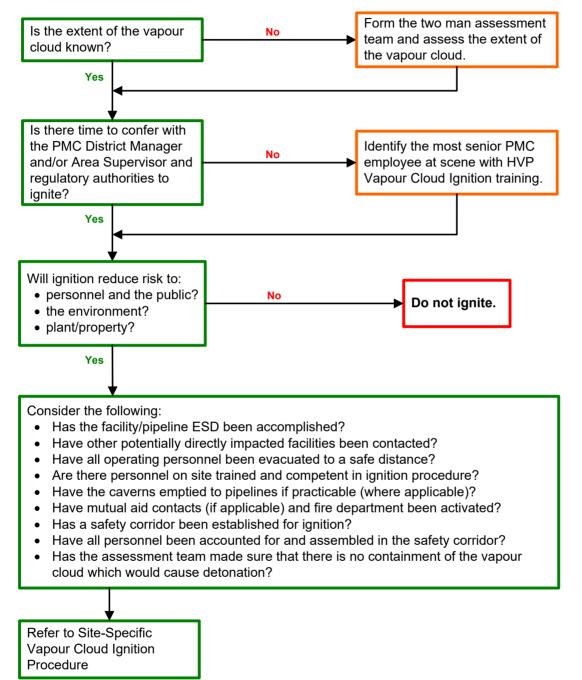
Ignition does not negate the need for continuing with evacuation, as there may be residual pockets of H_2S or SO_2 in the area.

NOTE: Ignition criteria can be found in 3.8.3. Public Protection Measures Flowchart and, if applicable, site specific vapour cloud ignition procedure may be referred to.



3.8.1 Ignition Flowchart

The following vapour ignition flowchart will be used in order to make the decision to ignite a release.



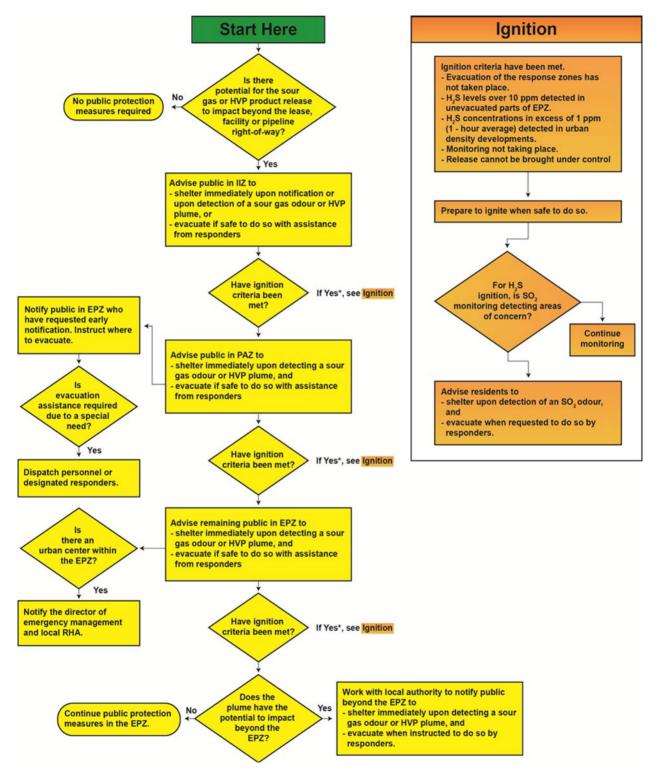


3.8.2 Ignition Checklist

IGNITION DECISION CHECKLIST	Yes / No
Facility / Pipeline Emergency Shut Down (ESD) accomplished	
Possible vapour cloud containment assessed in order to prevent detonation	
Vapour cloud extent assessed	
Potential for property and/or environmental damage due to accidental ignition and/or explosion assessed	
Risk to members of the public and response workers assessed	
Proximity to residences, public facilities, towns and urban centers assessed	
Fire hazard after ignition in relation to buildings, facilities, forested or cropland areas assessed	
Potentially directly impacted facilities contacted	
All personnel have been evacuated to a safe distance	
Personnel on site are trained and competent in ignition procedure	
Caverns emptied to pipelines if practicable (where applicable)	
Mutual aid (if applicable) and fire department have been activated	
Safety of ignition team is assured by clearly identifying the emergency hazard areas	
Safety corridor has been established for ignition	
All personnel have been accounted for and assembled in the safety corridor	



3.8.3 Public Protection Measures Flowchart



NOTE: AER Directive 071 – 14.3 Public Protection Measures (Figure 3).



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SECTION 4: Incident Specific Measures

The Incident Specific Measures section provides procedures and additional information specific to various emergency situations. This section is designed to support the existing procedures outlined within the Core ERP and pertain primarily to on-site tactical actions.

Additionally, PMC has established a response equipment program that includes:

- 1. Response Equipment Manual Equipment lists, equipment location, custodian contacts, and maintenance requirements.
- 2. Spill Control Points Location, access, local contacts, deployment procedures, and required equipment.
- 3. Specialized Emergency Response Tactical Training Exercises and specialty training sessions that involve the deployment of response equipment to train responders for spill response on land, water and ice.

Available equipment includes, but is not limited to:

- Spill response workboats
- Spill response equipment
- Oil spill containment and recovery trailers
- Command trailers

Note: Refer to Section 9: Area Specific Information for more details regarding PMC Response Equipment.



4.1 Functional Support Plans

There are Functional Support Plans (FSP) available at the PMC Corporate Calgary Office, on PMC MyPlains (and associated PMC Department SharePoint sites), and a copy of each is available in the Corporate Emergency Operations Centre (EOC). These have been developed internally and/or provided by industry partners to support specific responses and our responding groups / departments. Each FSP outlines specific emergency situations and in some cases points to documents that reside within other departments for that functions support during an incident.

The FSPs that are available, but not limited to, for reference include:

Developed by PMC

- Crisis Communications Manual
 - Outlines crisis communication resources, procedures and protocols.
 - Some of the primary functions include:
 - Executive media conferences, media releases, preliminary statements, general holding statements, etc.
- Cyber Security Plan
 - Outlines resources and procedures for responding to a cyber-attack at Corporate, facility and field offices.
- Environmental Plan
 - Outlines resources and procedures for creating environmental plans specific to incident types and area surrounding. To be utilized in conjunction with incident specific measures outlined within the Core ERP.

Provided by Industry Partners

- Western Canadian Spill Services Ltd. (WCSS) Oil Spill Contingency Manuals
 - Manuals specific to responding to oil spills in the WCSS defined areas and zones.
- Emergency Response Assistance Canada (ERAC)
 - A generic ERAC manual that outlines their response protocol and expectations from the licensee.
 - PMC has ERAP numbers specific to each mode of transportation (truck, rail and commercial) that are specific to the products that PMC handles, stores and transports.
 - Refer to 8.7.1 Emergency Response Assistance Canada (ERAC).
- Industrial Wildfire Control Plans
 - Identifies manned locations that fall within identified Alberta Wildlife Management Areas and includes (not limited to):
 - Number of personnel on-site, length of time on-site (minimum 4 hours per day), response equipment and safety equipment
 - PMC has developed a GIS based alert system for impinging wildfires that is linked to the PINS process.



In addition, the following support groups will assist in minimizing the risk to PMC assets, stakeholders and employees:

Land

The Land FSP provides support by minimizing the risk to PMC's assets through informing stakeholders, municipalities, communities and Indigenous Communities as required during an incident. This group also maintains the land contract records for all of PMC's assets and will provide land ownership and contact information for access.

This FSP primarily focuses on supporting the incident response through consulting with those affected members of the public. Land and the Community Relations Advisor's primarily function will be as the Liaison Officers or the Operations Team within the Public Protection Branch.

Damage Prevention

The Damage Prevention (DP) FSP provides support by minimizing the risk to PMC's underground infrastructure as required during an incident. This FSP primarily focuses on supporting the incident response through aerial and ground patrol. In addition, DP is involved with ROW surveillance and monitoring, line locating through On-Call notification and minimizing unauthorized activities. DP functions as Technical Specialists primarily found under the Planning Section, however they may reside in the Operations Section.

Cavern Integrity

The Cavern FSP provides support by minimizing the risk to PMC's assets through providing technical advice and recommendations for asset integrity for underground storage caverns and associated wells as required during an incident. The Integrity Management Program (IMP) has been developed to meet or exceed applicable regulatory requirements and relevant standards, and considers industry best practices. The Cavern Integrity Management (CIM) Program provides the processes and procedures required to meet technical requirements for cavern and well integrity management.

This FSP primarily focuses on supporting the incident response through providing technical cavern data and information during a response. The Cavern Integrity group will be serving at Technical Specialist in the Planning Section.

Supply Chain Management (Logistics)

The Supply Chain Management FSP provides support for purchasing, procurement and contracting for goods and services in an incident as required. These services and tasks are supported through the Logistics Section function and occasionally through the Finance & Administration Section. This FSP primarily focuses on supporting the incident response through arranging for necessary equipment, materials, and support services to any incident facility (location), as well as to ensure that responders have the necessary transportation, lodging, medical, security, amenities, etc. to safely and properly respond.

Information Technology/Information Services (IT/IS)

The IT/IS Functional Support Plan (FSP) provides support for all information technology and related services in an incident, and more specifically as it relates to the Incident Command Post (ICP), Emergency Operations Centre (EOC), other incident facilities, and general responder communications. These services and tasks are supported through the Logistics Section via the Communications Unit and Facilities Unit. The FSP primarily focuses on the initial setup of the ICP and other incident facilities requiring technology and connectivity, as well as the ongoing maintenance and troubleshooting to ensure that all responders have the necessary equipment, communications, and capabilities to optimally perform their roles.



4.2 Fire / Explosion

Shutdown the equipment in the affected area, isolate and de-pressure from a remote location if it is safe to do so. For the safety of our workers, it would only be acceptable for workers to fight incipient fires (fires in the beginning stages).

The first person on scene will:

- Assume the role of Incident Commander until relieved by a more qualified individual.
- Assess the situation to ensure personal and others' safety.
- Evacuate personnel from hazard area, consider the following:
 - The availability of safe evacuation routes and ability to attend and transport injured personnel.
 - Determine need for backup or outside resources. Contact emergency services as needed (911, where available).
 - \circ Initiate the evacuation alarm.
 - If dealing with fire, ensure backup is present or en route before attempting to contain or control the fire.
 - Assess the need to shut down the plant to minimize risk to personnel and equipment, execute if necessary.
 - Assess risk of controlling an incident with available personnel and equipment, execute if risk is deemed low.
 - Contact Control Room/Supervisor giving an initial assessment including location, area potentially affected and other hazards.

In addition, the Incident Commander will:

- Call the PMC 24-Hour Emergency Number.
- Ensure evidence is documented and secured for investigation.
- Review Incident Commander Checklist.

Boiling Liquid Expanding Vapour Explosion (BLEVE)

BLEVE is a process whereby the flammable liquid in a vessel is heated through an outside source (flame impingement). The added heat causes the liquid to vaporize and the pressure to rise in the vessel. When the pressure reaches the release pressure of the vessel's pressure safety valve (PSV) the valve will lift and return the pressure in the tank to a safe level and then close. If the external heated source cannot be eliminated, this process will continue. When the liquid level in the tank drops below the level of the flame impingement, the vessel will begin to weaken and will eventually result in a catastrophic failure or BLEVE. BLEVE's are not predictable. The vessel failure may occur within the first few minutes of the impingement or may take several hours.

<u>Note</u>: Fires that have potential for becoming a BLEVE would not be considered incipient fires and as such there is to be no approach attempts made for the purpose of attempting to fight the fire.



4.3 Hazardous Product Releases

4.3.1 Gas Release

The first person on scene will:

- Maintain a safe distance from gas release in the upwind or other safe direction.
- Assume the role of Incident Commander until relieved by a more qualified individual.
- Notify the Olds or Local Authorized Control Centre. Provide the following information:
 - Your name, location and contact number.
 - Location of the emergency.
 - Nature of the emergency.
 - Estimated size and/or seriousness of the emergency.
 - o Initial indication of the equipment and manpower needed to respond the emergency.
- Don appropriate PPE. Isolate leak if it can be done safely, otherwise evacuate the area.
- Evacuate all personnel from hazard area to upwind or other safe location.
- Evaluate situation and provide information to the Control Centre as it becomes available.
 - Other hazards.
 - Wind direction and speed.
 - Ambient air temperature.
 - Location of release.
 - Product has been released.
 - \circ $\;$ Size of release. On or off site.
 - Vapour cloud location. Rate of travel.
 - Security and roadblocks.
 - Maintain the area secure until assigned a different duty.

In addition, the Incident Commander will:

- Use all available means of gathering information.
- Dispatch an Investigative Team, if safe to do so.
- Call the PMC 24-Hour Emergency Number.
- Communicate with Operations Section Chief.
- Sound any available alarm. Do not hesitate to muster when situation is unclear.
- Account for all personnel on site.
- Alert other personnel in area about nature and location of incident and, if necessary, isolate the area and evacuate non-essential personnel to a safe area.
- Determine the Level of Emergency. (Refer to the Section 1)
- Assign a Documentation Unit Scribe/Aide.
- Notify the Regulator and other appropriate agencies as required.
- Ensure own safety and that of fellow responders; work closely with the Site Safety Officer, if assigned.
- Initiate defensive (e.g., vacate area) and/or, if qualified, initiate offensive response actions (e.g. isolate, depressurize) consistent with the level of expertise and training, knowledge of problem(s) and understanding of hazards.



- Make decision on what processes to shut down, which valves to close, etc.
- Communicate with On Site Personnel to evaluate situation on ongoing basis.
- "Size up" situation to identify problem(s) to be addressed by incident site personnel.
 - Is gas going offsite?
 - Are there ignition sources in area?
 - Will gas supply diminish?
 - Can gas supply be eliminated?
 - Is ignition a safe or better option (Refer to the *Public Protection* Section)?
 - Determine if local residents and businesses are potentially at risk. (Refer to the *Public Protection* Section).
- Refer to Incident Commander Checklist.

4.3.2 Vapour Cloud

The first person on scene will:

- Assume the role of Incident Commander until relieved by a more qualified individual.
 - Evacuate all personnel from hazard area.
 - Move to a safe area immediately.
 - Move upwind if release is downwind of your location.
 - \circ $\;$ Move crosswind if release is upwind of your location.
 - Move to higher ground if possible.
 - Sound the alarm.
 - Assess the situation to ensure personal and others' safety.
 - Account for all personnel.
 - Consider other hazards.
 - Protect yourself by donning appropriate Personal Protective Equipment (PPE) as required before attempting a rescue.
 - Move victim(s) to a safe area and administer first aid as necessary.
 - Request emergency medical services, as required.
 - Arrange transport of victim to medical aid.
 - Provide information to Emergency Medical Services (EMS).
 - \circ $\;$ Determine need for backup or outside resources.
 - Notify the Olds or Local Authorized Control Centre and direct Supervisor.
 - o Document all information by completing the required forms in the Forms Section.
 - \circ $\;$ Isolate the source of the leak, provided there is no danger to life in doing so.
 - Establish roadblocks to prevent any unauthorized personnel from entering the incident site and monitor air quality at roadblocks.

In addition, the Incident Commander will:

- Call the PMC 24-Hour Emergency Number.
- Account for personnel on site.
- Ensure all potential sources and concentrations of product are identified on site.
- Ensure required communication occurs between internal and external people.



- Ensure appropriate air quality monitoring is taking place.
- Request additional resources, as required.
- Ensure evidence is documented and secured for investigation.

Vapour clouds are formed when a hydrocarbon or other material is released to the atmosphere. The release can occur as a vapour jet, a liquid jet, or a liquid spill. The type of release affects the characteristics of the vapour cloud.

The vapour jet is formed when a leak occurs on a service that is operating at a pressure that is lower than the vapour pressure of the fluid at the given operating temperature. When a leak occurs, the vapour is expelled at a velocity that is dependent upon the pressure of the system. The higher the operating pressure, the higher the velocity. At relatively high pressure, this velocity approaches the speed of sound.

Liquid jets occur when a leak occurs on a system that is operating at a pressure above the vapour pressure of the fluid at the given operating temperature. Liquid is released and a portion will vaporize if the normal boiling point of the material is below ambient temperature. In addition, as the liquid droplets mix with air and contact the ground, additional liquid will vaporize due to heating from these media. The pool that forms on the ground will continue to vaporize as it absorbs heat from the ground.

The liquid pool is formed when a leak occurs on a service that has a vapour pressure that is lower than the atmospheric pressure at the ambient temperature. The fluid spills to the ground and will begin to evaporate. The rate of evaporation is dependent upon the vapour pressure of the fluid at the ambient temperature – the higher the vapour pressure, the higher the rate of evaporation – and characteristics of the surface on which it spills. The vapour that is formed will produce an explosive mixture in the vicinity of the spill.

Vapour Plume Management

A vapour plume is the visible cloud or fog of hydrocarbon vapours emanating from an HVP piping leak site. It is a result of the hydrocarbon vapours condensing moisture out of the surrounding air. The visible vapours do not necessarily determine or indicate the extent of the hydrocarbon vapours. On a windy dry day, the visible portion may only exist for a short distance while on a calm day it will be visible for a much greater distance.

The size of the leak and normal operating pressure on the line may also be a large factor in the size of the plume. A large break on a small line will produce a large cloud for a short time period after which it will reduce to the steady "boil off period". If the line is large this "boil off period" may last several days.

It should be noted that the actual size and safe limits of a plume's boundary would only be determined by using a combustible gas detector.



PMC's Practice for a Controlled Vapour Cloud Ignition *Scope and Applicability*

This practice applies to all plants, pipelines, storage cavern and terminals, rail and truck loading and offloading facilities.

The purpose of the practice is to provide guidelines for controlled ignition as a method for controlling vapour clouds formed as a result of high vapour pressure (HVP) product releases. The purpose of the ignition is to reduce risk to personnel, the public, environment, plant and property. The practice defines circumstances, evaluation methods, minimum training requirements and the decision process for personnel who will ignite HVP vapour clouds.

Due to a vast number of variables involved during a HVP product release it is not possible to capture all scenarios and possible response methods for each scenario in this practice. This practice should be used and a guideline for ideal course of action for controlled HVP vapour cloud ignition. Never replace common sense with instructions listed in this manual.

Scope of Responsibility

The PMC District Manager or his/her delegate must ensure that:

- Emergency response plans are in place to address specific HVP product release scenarios
- The workers are trained and competent to operate gas monitors and ignition equipment
- All gas monitors are periodically calibrated and ignition equipment is properly inspected prior to ignition
- A hazard assessment is completed prior to starting work that includes identification of the extent and the composition of the plume, travel path, meteorological conditions, and topography of the area. From this assessment, it can be determined whether ignition is the most favourable control option

Scope of Training, Certification and Competencies

Only trained and competent authorized personnel will be permitted to ignite HVP plumes in order to prevent vapour clouds from migrating out of controlled areas or reaching process areas. Acceptable form of training is Enform's Vapour Plume Ignition Training course, or a comparable course approved by Liquids Operations HSSE Manager

Scope of Application

Ignition of any HVP product vapour cloud will be considered as an alternative control measure when public and personnel health or safety is at risk as the vapour could shows potential to migrate.

- The Area Manager or his/her delegate with HVP ignition training has the authority to ignite the leak. If hazard would be increased by waiting to attempt communication with the Area Manager or the delegate for permission to ignite the plume, the most senior PMC employee at the scene with HVP ignition training can make the decision
- Depending on availability of time, decision to ignite the release will be made in conjunction with the Incident Commander (if accessible), Calgary EOC (if convened) and Regulatory Authorities (e.g. AER)
- First step in evaluation is to determine the extent of the flammable vapour cloud. This will be achieved by two workers (the Assessment Team) walking around the plume with gas monitors. This practice will also allow personnel to establish any low lying terrain features where the cloud may extend further. At no point will the assessment team get into an area where gas concentration is greater than 10% LFL. It is recommended that decision to ignite is not taken unless a full circle around



the vapour cloud has been completed. However, where it is not possible to complete a full cycle, Ignition Team will make an assessment whether it is possible to determine the extent of the flammable vapour cloud by alternative methods e.g. By line of sight

- The Assessment Team will identify how vegetation, road access, power lines, etc. will affect the behaviour of the vapour cloud and control operations. The team will also make sure that the vapour cloud is not trapped/contained in any kind of structure which would cause detonation if ignited
- Wind direction will be constantly monitored in case it changes

The following will be considered prior to ignition:

- Is there a greater potential for property and/or environmental damage due to accidental ignition and/or explosion?
- Are any members of the public or response workers at risk?
- Is the proximity to residences, public facilities, towns and urban centres known?
- Is the status of evacuations known?
- Is there a fire hazard after ignition in relation to buildings, facilities, forested or cropland areas? (flame front may affect al structures)
- Is the safety of ignition team assured by clearly identifying the emergency hazard areas?

The following actions should be taken prior to ignition:

- Isolate the product with automatic or manual valves as quickly as possible
- Put all affected site plants and pipelines into emergency shut down and evacuate all operating personnel to a safe distance
- Initiate the notification process
- If the leak is at a cavern, empty the caverns to pipelines if it is deemed safe and practical to do so by the management of pipelines
- Activate mutual aid (if applicable) and fire department
- Contact neighbouring residences and facilities, begin public evacuation if necessary
- Notify all other potentially impacted facilities
- Ensure that a safety corridor has been established prior to proceeding with ignition.
- Ensure that all personnel are accounted for and assembled in eh safety corridor

Equipment Required:

- Flare Pistol and Flares (minimum 10). Parachute type flare shells are not permitted as these shells are highly inaccurate and their use in HVP ignition is limited
- Wind Direction Device. Where windsocks are not available use a piece of light tape attached to a rod or hand held radio antenna
- Flammable gas monitors, charged and calibrated
- Two way communication devices
- Binoculars
- Inherently Fire Retardant (IFR) Clothing
- <u>Note:</u> A two man team trained in controlled vapour ignition and gas monitoring is required for ignition (Ignition Unit).



Ignition Actions

- Ignition must be attempted from a safe distance and in a gas free area; preferably with the shooter protected by a structure
- Approach the vapour cloud from upwind and to the side. This is to provide a wider vapour cloud cross section to aim at
- Fire shells toward the plume from a maximum upwind range
- Initially attempt to hit the perimeter of the vapour cloud where air to fuel mixtures are correct for ignition
- If the flare lands short and no ignition takes place, it can be assumed that the flare is not in the flammable vapour cloud. Move closer provided that you do not get into an area where the gas concentration is greater than 10% LFL
- Repeat until ignition is successful and sustained

Post Ignition Procedures

- Advise Incident Commander of ignition status
- Continually monitoring for Flammable Vapours in downwind and low-lying areas, Emergency Hazard Area and EPZ
- Continue monitoring wind direction and speed
- Maintain security around immediate area of the burning gas
- Monitor all personnel for injuries
- Evaluate the potential of fire spread
- Follow established fire control procedures at site.

Refer to Section 3: Responder Safety and Public Protection, 3.8 Ignition for additional information

4.3.3 Pipeline Release

The first person on scene will:

- Assume duties of Incident Commander until relieved by a more qualified individual.
- Contact Control Centre to provide information, giving an initial assessment including location, area potentially affected and other hazards. Provide the following information:
 - Your name, location and contact number.
 - \circ Location of the emergency.
 - Nature of the emergency.
 - Estimated size and/or seriousness of the emergency.
 - Initial indication of the equipment and manpower needed to respond to the emergency.
- Don appropriate PPE.
- Determine leak location, maintaining safe distance from the release in the upwind direction. Use gas detection to ensure safe distances.
- Eliminate all sources of ignition.
- If safe to do so, isolate leak (e.g. close manual valves).
- Alert personnel in area and control access to area.
- Evacuate all non-essential personnel from hazard area.
- Evaluate situation and convey information to the Control Centre on an ongoing basis.



- Other hazards
- Wind direction and speed.
- Ambient air temperature.
- Location of release.
- Product released.
- Size of release. On or off site.
- Vapour cloud location. Rate of travel.
- Security and roadblocks.

An investigative team may:

- Ensure team members are properly equipped, including:
 - o Vehicle
 - o Radio or telephone
 - Monitors and/or explosion meters
 - Flare gun and flares
 - Danger/ warning markers
- Travel to incident scene; observe safe approach guidelines.
- Ensure own safety and safety of all responders.
- Obtain the status of the incident from the Control Centre before approaching the leak.
- Advise the Control Centre of safe routes to leak area.
- Confirm that the Control Centre has shut down the pipeline section or system, if appropriate, and/or has remotely closed valves in the suspect location.
- Approach the leak from an upwind direction, if possible, using explosion meters and/or LEL monitors
- Check any buildings within the vicinity of the leak and evacuate any persons potentially in danger.
- Determine the extent of the danger area and if the hazard can be reduced by ignition.
- Maintain communications with the Control Centre.
- Maintain watch over leak area and warn person(s) away from danger.
- Locate suitable locations along pipeline for stopple installations on each side of leak. Locations must have regard for safe working condition, access and location of existing valves.
- Give direction to emergency crew to excavate for stopple installations.
- Request additional support or resources as needed.

In addition, the Incident Commander will:

- Travel to incident scene; observe safe approach guidelines.
- Call PMC 24-Hour Emergency Number.
- Notify the Regulator and other appropriate agencies as required.
- Account for all personnel on site.
- Ensure own safety and safety of all responders; work closely with Safety Officer.
- Determine the Level of Emergency. (Refer to Section 1).
- Assign a Documentation Scribe/Aide.



- Alert other personnel in area about nature and location of incident and, if necessary, establish an Isolation Perimeter and evacuate non-essential personnel to a safe area outside the perimeter.
- "Size up" situation to identify problem(s):
 - Is product going offsite?
 - Are there ignition sources in area?
 - Will energy supply diminish?
 - Can source be eliminated?
- Determine if local residents and businesses are potentially at risk.
- Determine type and level of security needed to maintain Isolation Perimeter.
- Develop solutions to problems and delegate work that needs to be done into manageable tasks.
- Place additional personnel and resources on standby, if required.
- Compile and maintain appropriate documentation.

Third Party Identification of a Potential Pipeline Release/Leak

- Establish/record details of incident from caller or SCADA/Leak detection system.
- Record the following information:
 - Caller's name, phone number, incident location (including LSD, if available), date and time.
 - Pipeline damage, vapour cloud, fire explosion, natural disaster or terrorist activity.
 - Conditions (burning, blowing, cloud), wind direction and speed.
 - Parties notified: Police, Fire Department, and Municipalities.
 - People on site, injuries.
 - Immediate danger to; town, farm, residence, industry, traffic.
- In the case of a vapour cloud, inform the caller of dangers, advise to evacuate the area.
- Only if safe to do so, and if possible, request caller to remain in contact until pipeline personnel arrive.

Shutdown and Isolation Procedures

Refer to the **Pipeline Control Centre Event Checklist** for additional guidance on shutdown actions.

- Immediately shutdown injections into pipeline and all pumps upstream of incident.
- Continue with deliveries upstream and downstream and run downstream pumps until pressures are as low as possible at incident location.



4.4 Spill or Leak

4.4.1 Spills

The first person on scene will:

- Assume the role of Incident Commander until relieved by a more qualified individual.
- Assess the situation to ensure personal and others' safety. Consider other hazards.
- Sound alarm and evacuate all personnel from hazard area, consider the following:
 - Move to a safe area immediately.
 - Move upwind if release is downwind of your location.
 - Move crosswind if release is upwind of your location.
 - Move to higher ground if possible.
- Protect yourself by donning appropriate Personal Protective Equipment (PPE) as required before attempting a rescue.
- Move victim(s) to a safe area and administer first aid as necessary.
- Determine need for backup or outside resources. Contact emergency services as needed (911, where available).
- Notify the Olds or Local Authorized Control Centre to provide information, giving an initial assessment including location, area potentially affected and other hazards. Provide the following information, if available:
 - The location of the leak.
 - The nature of the substance being released.
 - An estimate of the size and seriousness of the leak.
 - Indication of the equipment and manpower needed to control the release, and the action planned prior to additional staff arrival.
- Establish roadblocks to prevent any unauthorized personnel from entering the incident site and monitor air quality at roadblocks.
- Use barricades and/or flagging to secure the area, if necessary.
- Implement control procedures to minimize the impacts. For a spill utilize the appropriate absorbents and/or berms downstream of the impacted area and only once safe to do so.
- Document actions on an ICS 201.

In addition, the Incident Commander will:

- Call the PMC 24-Hour Emergency Number.
- Account for personnel on site.
- Ensure all potential sources and types of products are identified.
- Ensure appropriate air quality monitoring is taking place.
- Ensure required communication occurs between internal and external people.
- Ensure evidence is documented and secured for investigation.

Initial Response to a Spill

A hazard assessment must be completed prior to conducting tactical operations and appropriate safety measures put into place. The Incident Commander directs the immediate isolation of the source and



containment of the spill as long as there is no immediate danger to health or safety. The containment may include closing or blocking culverts, temporary ditching or berms and using absorbents. The IC will also ensure an Emergency one-call is placed before any possible ground disturbance.

Possible spill impacts must be assessed, including areal extents. Aerial overflights should be established as soon as possible. Specific tactical measures to respond to spills can be found in the WCSS Spill Response Manual.

The emergency phase of a spill response will continue until all parties in Unified Command agree there is no further risk to people, property and the environment. At this time, remediation and restoration activities may still be underway, but will become a project rather than an emergency response.

Spills - Waterway

Always approach a spill with caution, from upwind and uphill, testing with a gas detector. A specific plan of action must be implemented when a leak is reported to be near or into a body of water. The immediate priority when tactically responding to spilled product in or near water is to prevent migration. Containment, recovery and storage tactics must be established as quickly as safely possible. The fate and behavior of the product will have an impact on response measures and thus should be assessed as early as possible.

Immediate actions will include:

• Public and official authorities downstream from the leak shall be contacted and informed of the situation. They may also be invited as a Stakeholder or member of Unified Command if they are providing response resources.

Containment of Natural Gas Liquids (NGL) mix when spilled in a waterway is not safe, nor feasible. These products are typically flammable and explosive and should not be contained to a pooled area. Feasibility wise, the nature of the liquid, rapid evaporation and low film strength will not permit absorption or the use of a floating dam to contain it.

Spill - Land

Always approach a spill with caution, from upwind and uphill, testing with a gas detector. Keep sources of ignition away from the area covered by the vapour. Special caution must be used downwind and downhill from the spill as liquid spills will spread and pool in low lying areas.

The appropriate tactical response measures to contain, recover and store spilled product should be developed at the time and are dependent on the situation. Recovery should not begin until storage and/or transport is arranged.

Depending on the specific product, the fate of the spill will vary and must be assessed in order to maximize response efforts.



NGL Mix Spilled In Waterway

Leaking natural gas liquid mix will boil into the atmosphere creating a vapour cloud that will, if trapped in a valley, move downwind. The cloud of vapour is extremely volatile and the outer fringes may be at, or near, the lower explosive limit (LEL).

- All sources of ignition in the path of the vapour cloud shall be eliminated.
- The cloud of vapour shall be monitored from upwind until it is obvious that it has dispersed into the atmosphere. The refrigerating effect of the rapid boiling and gas expansion can freeze the soil surrounding the pipe. The amount of freezing is directly related to the size and movement of the body of water and the severity of the rupture.
- Plume ignition must be considered as a tactical response and only carried out once approved by the Incident Commander and by trained personnel.

4.4.2 Leaks

- Immediately and safely shut down the source.
- All shut-down procedures to be recorded and confirmed before work commences at the accident site.
- Implement emergency action plan for the isolated section.
- Dispatch fully equipped contract crews.
- Dispatch resources including bulldozers, backhoes, air compressors, as the need requires. Ensure One-Call has been completed and responded to prior to any ground disturbance and crossings.

Small Leak

A small Leak of NGL will not usually present a significant hazard in an open area where the liquid is vaporizing as it leaks and the vapours are dispersing in the air as they form. A small leak of this substance may cause a hazardous condition if the vapours collect in a confined space in quantities sufficient to form a flammable mixture.

Response Actions

- PMC personnel dispatched to leak area.
- Outline a safe perimeter around the leak and set up necessary road blocks.
- Determine if evacuation is necessary.
- Determine and carry out repair.
- Arrange for surveillance of any temporary repair until permanent repairs are completed
- Arrange for permanent repairs and area clean up.

Medium Leak

A leak of a size such that the vapour does not disperse within a small area creates a very hazardous condition. The cold vapour, heavier than air, will tend to flow downwind and into depressions and form a flammable mixture with air.

The area downwind of a leak of adjacent lower areas should be approached only with an explosion meter to avoid flammable concentrations of vapour mixtures.



If a quantity of liquid has escaped and vapourizes, all sources of ignition, such as car and truck engines, must be kept well away from the probable hazardous area.

Response Actions

- Contact Control Centre to shut down pipeline.
- Investigate leak, report the conditions.
- Outline a safe perimeter around the leak and set up necessary road blocks.
- Call the PMC 24-Hour Emergency Number.
- Advise local police, request assistance to control people in the area. Direct police to site with a safe approach route.
- Approach leak site from upwind.
- Determine if evacuation is necessary.
- Determine if the hazard can be reduced by igniting the vapour. Plume ignition may only be carried out by trained personnel.
- Advise the Emergency Operations Center (EOC) of proposed actions including ignition decision and repair plans.
- Maintain communications with all affected parties.
- Carry out all possible safety measures. Arrange for surveillance of any temporary repair until permanent repairs are completed.

Large Leak

A large leak of NGL may be caused by damage to the pipe by external sources. This can quickly be detected at the Control Centre due to volume balance upset and changes in operation pressures. The Leak Detection Model should detect a large leak within minutes of its occurrence. Such a leak will also probably be reported from the site.

There will be an immediate outflow of liquid at the failure followed by intermittent slugs of liquid and vapour. About one-third of the liquid will flash into vapour. The remainder will form a pool of super cooled liquid and vapourize as rapidly as the heat flow from the surrounding air and ground will permit.

If the flammable vapour-air plume formed at the leak has not ignited, it will have reached its greatest size within the first half hour from the time the leak occurred. Every effort should be made to prevent ignition of the vapour-air plume until the line fill available to the leak is depleted and the plume becomes diluted below the lower flammability limit.

Response Actions

- Shut down equipment with leak and close remotely operated valves upstream from leak.
- Investigate leak, report the conditions.
- Outline a safe perimeter around the leak and set up necessary road blocks.
- Notify PMC 24-Hour Emergency Number
- Advise local police, request assistance to control people in the area. Direct police to site with a safe approach route.
- Approach leak site from the windward direction.
- Determine if evacuation is necessary.



- Determine if the hazard can be reduced by igniting the vapour from the leak following evacuation of the area. Plume ignition may only be carried out by trained personnel.
- Advise Emergency Operations Center (EOC) of proposed actions including ignition decision and repair plans.
- Maintain communications with all affected parties.
- Carry out all possible safety measures. Arrange for surveillance of any temporary repair until permanent repairs are completed.



4.5 Transportation of Dangerous Goods

Transport Canada develops safety standards and regulations, provides oversight, and gives expert advice (through the Canadian Transport Emergency Centre — CANUTEC) on dangerous goods accidents to promote public safety in the transportation of dangerous goods by all modes of transport in Canada.

In the event of an emergency involving dangerous goods, call CANUTEC at 1-888-CANUTEC (226-8832); 613-996-6666 or *666 on a cellular phone. CANUTEC is the Canadian Transport Emergency Centre operated by the Transportation of Dangerous Goods (TDG) Directorate of Transport Canada.

4.5.1 Trucking / Rail

The first priority following any must be the health and safety of all persons involved. The response will depend on the incident and resources readily available, and include the administration of:

- Securing the scene (prevent access, further injury or damage and to assist with investigation). This OHS regulation
- Provide first aid or CPR.
- Use of small-scale fire suppression.
- Execute evacuation.
- Shut-down equipment.
- Notify responders-police, fire, ambulance.
- Notify company representatives.
- Notify additional responders ERAC, CANUTEC, or Chemtrec, as required.

Drivers are responsible to have responder contact information for transportation jurisdictions.

Packing Group information (refer to the product SDS) may be required for emergency response planning.

Incidents involving rail transportation will be jointly managed by both the product consignor and transporter (rail operator) as applicable.

Once the situation is secured, additional assistance may be sought as required. The ERP notification procedures may be initiated based on the corporate assessment.

Vehicle Incident

The first person on scene will:

- Assume the role of Incident Commander until relieved by a more qualified individual.
- Assess the situation to ensure personal and others' safety.
- Determine the necessary Personal Protective Equipment (PPE) needed to safely carry out response actions.
- Shut off all ignition sources if safe to do so.
- Evacuate non-essential personnel from hazard area.
- Administer first aid as necessary.
- Determine need for backup or outside resources. Contact emergency services as needed (911, where available).



- Contact immediate supervisor giving an initial assessment including location, area potentially affected, injuries and other hazards.
- Gather names/addresses/phone numbers of any witnesses.
- Establish roadblocks, if necessary.

In addition, the Incident Commander will:

- Call the PMC 24-Hour Emergency Number.
- Account for personnel on site.
- Ensure required communication occurs between internal and external people.
- Establish and maintain a secure incident scene.
- Request additional resources, as required.
- Complete the appropriate documentation.
- Ensure evidence is documented and secured for investigation
- Review Incident Commander Checklist.

4.5.2 Emergency Response Guidebook (ERG)

The Emergency Response Guidebook (ERG) was developed jointly by Transport Canada (TC), the U.S. Department of Transportation (DOT), the Secretariat of Transport and Communications of Mexico (SCT) and with the collaboration of CIQUIME (Centro de Información Química para Emergencias) of Argentina, for use by fire fighters, police, and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving dangerous goods.

The ERG was last updated in 2020 and is primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the material(s) involved in the incident, and protecting themselves and the general public during the initial response phase of the incident.

This guidebook will assist responders in making initial decisions upon arriving at the scene of a dangerous goods incident. It should not be considered as a substitute for emergency response training. The ERG does not address all possible circumstances that may be associated with a dangerous goods incident. It is primarily designed for use at a dangerous goods incident occurring on a highway or railroad.

To view the ERG - 2020: <u>https://www.tc.gc.ca/eng/canutec/emergency-response-guidebook.html</u>



4.6 Natural Disasters or Severe Weather

(Including a grass fire, forest fire, flooding, tornado or thunderstorm)

The first person on scene will:

- Assume the role of Incident Commander until relieved by a more qualified individual.
- Assess the situation to ensure personal and others' safety.
- Evacuate personnel from hazard area.
- Administer first aid as necessary.
- Determine need for backup or outside resources. Contact emergency services as needed (911, where available).
- Notify the Olds or Local Authorized Control Centre to provide information, giving an initial assessment including location, area potentially affected and other hazards.
- If dealing with fire, ensure backup is present or en route before attempting to contain or control the fire.
- Assess risk of controlling an incident with available personnel and equipment, execute if risk is deemed low.
- If alerted of severe weather patterns seek shelter and remain indoors, if possible.

In addition, the Incident Commander will:

- Call the PMC 24-Hour Emergency Number.
- Account for personnel on site.
- Ensure required communication occurs between internal and external people.
- Implement control procedures to minimize impact including deciding what gets shut in or isolated or when the facility should be evacuated.
- Request additional resources as required.
- Ensure evidence is documented and secured for investigation.
- Review Incident Commander Checklist.



4.7 Next–of-Kin Notification

When an employee, contractor or member of the public is seriously injured, missing or pronounced dead, the next of kin must be notified as promptly as possible.

Responsibility for Notification

Employee	Notification of an employee's next of kin is the responsibility of the RCMP or local police. The Incident Commander will designate a PMC representative to participate in the notification.
Contractors	Notification about contractors should be made by the RCMP or local police together with the employer. The Incident Commander will ensure that the contractor's management is notified. Some independent contractors may not have a head office. In such cases, the Incident Commander will designate a PMC representative to participate in the notification.
Public	If a member of the public is injured or killed as a result of PMC operations, notifications will be coordinated through the RCMP or local police.

Consider involving the PMC Human Resource department for additional and ongoing support.

Before Notifying the Next of Kin

- Never release names before the next of kin are notified.
- Whenever possible, a senior company representative will participate with the RCMP, or local Police.
- Be prepared to support the next of kin. Consider assistance such as transportation, child care, alternative accommodation, reimbursements for daily expenses and the temporary care of the family home if required.
- Make the notification in person, not by telephone or through an intermediary.
- Provide the relatives with as much information as possible. Present only the facts; do not speculate.
- Do not discuss personal views of liability or fault.
- Be prepared to listen to what people are saying. Allow the next of kin to vent their emotions.
- Attempt to support and reunite families as quickly as possible.
- Offer assistance; document key issues and concerns.
- Document the details of anyone who appears to be having trouble coping with the incident so that he / she can be given prompt support.
- Do not leave the next of kin alone.
- Offer to contact a neighbour, friend, relative, minister, doctor or counsellor.
- Leave your name and telephone number with family members



4.8 Security Incidents

4.8.1 General Security Response Actions

To activate a response to a security incident refer to the Security Threat Response Plan (STRP) Standard or Security Procedures & Security Plans.

Security Procedures and Plans listed below provide detailed response measures. Standards, Procedures & Plans are available on the Emergency Response and Security MyPlains page: <u>Security Management</u> (sharepoint.com).

Security Procedures & Security Plans

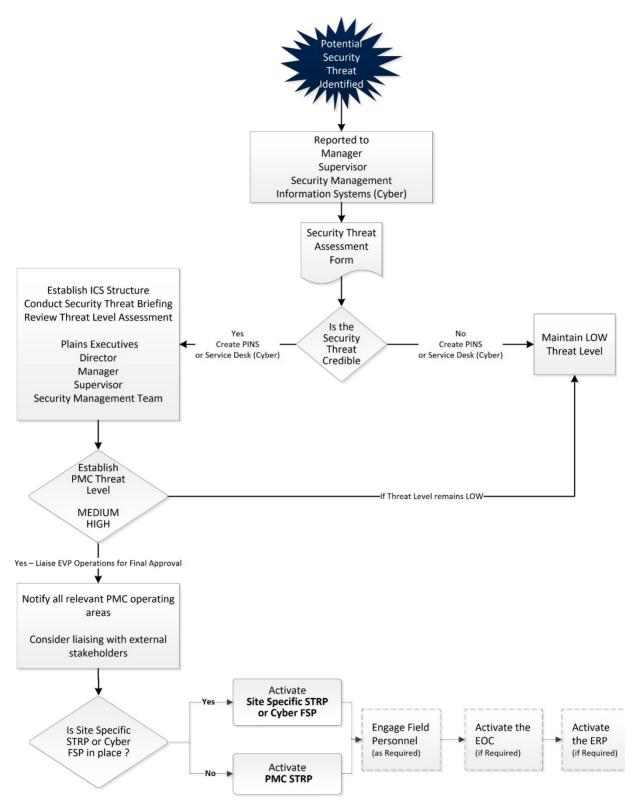
- Bomb Threat Procedure
- Suspicious Activities Procedure
- Suspicious Package Procedure
- Civil Disturbance Procedure
- Terrorism Procedure
- Theft Procedure
- Unauthorized Entry Procedure
- Vandalism Procedure
- Workplace Violence Procedure
- Security Incident Procedure
- Control System IT Attack Procedure
- Cyber Security Incident Functional Support Plan
- Site Specific Security Threat Response Plans

Initial Actions

- Review Figure 1: STRP Activation process map below or in the STRP Standard
- Begin documenting on the Security Threat Assessment Form (Refer to 8.1 in Security Threat Response Plan Standard) and on the *ICS 201* Incident Briefing Form (*Refer to Section 6: Forms in ERP*)
 - Record initial incident details (Type of Incident, location, personnel, communications, response details, etc.)
 - \circ $\;$ Record initial response objectives and strategies to achieve incident priorities



STRP Standard – Figure 1: STRP Activation



Note: Activate countermeasures as per threat levels



4.9 Dams (Brine Ponds)

4.9.1 Potential and Imminent Emergencies

Potential Flood Emergency

When an abnormal condition is observed at the brine ponds or the brine ponds performs abnormally and, without swift and effective intervention, the condition could deteriorate and lead to brine ponds breach.

Imminent Flood Emergency

When the brine ponds have failed, or there is a severe abnormal condition that has a significant probability of leading to a brine ponds breach.

Drawdown procedures:

As required, in a potential or imminent flooding situation, begin drawdown operations of the pond level in a controlled manner by:

Activating the appropriate discharge pumps for the control structure affected, as required:

- If water is being transferred to an injection well or back to the cavern, notify the applicable personnel of the transfer.
- If transfer is initiated to another pond, monitor the level of that pond.
- Operate pump and discharge line
- Monitor pump and discharge lines for proper operation
- Continue frequent monitoring of structures, embankments and water levels for unusual or changed conditions.
- Restrict access along roads threatened by a potential flood emergency.

A Brine Pond Breach or potential Brine Pond Breach at a site may present the following hazards:

4.9.2 Potential Abnormal Conditions

Water Levels Above Normal High Operating Level

In case of high inflows due to a condition that could cause brine pond levels to rise higher than the normal maximum operating level, the following procedures shall be followed:

- Initiate drawdown procedures
- Inspect the brine pond toe and abutments of the brine pond for any new seeps, an abnormal increase in quantities of seepage, or any indication of muddy/silty/cloudy flow.
- Inspect the dykes for signs of slope instability, such as slumps, cracking, settlement and any new deformity or misalignment, however unlikely
- Continue frequent monitoring of structures, embankments and water levels for unusual or changed conditions.
- Restrict access along roads threatened by a potential flood emergency.
- Put resources (personnel and heavy equipment) on standby or mobilize resources or and equipment to the site, to repair damages



Slumping or Cracking of Brine Ponds

In case of slumping or cracking, the following shall be determined and/or conducted:

- Location of the slumping or cracking.
- Size and severity of affected area(s) in height, width and depth.
- Estimated leakage discharge (clear or muddy/silty/cloudy) and reservoir and elevations.
- Report findings, or threats of imminent flood
- Whether the brine pond needs to be drawn down with injection pumps.
- Whether to undertake shelter-in-place, a site or an EPZ evacuation.
- Put support services (personnel and heavy equipment) on standby or mobilize resources to repair damages in the pond embankment, as required.
- Continue frequent monitoring of structures, embankments and water levels for unusual or changed conditions. Implement appropriate additional response actions as necessary.
- Restrict access along roads threatened by a potential flood emergency.

Failure of Operating Equipment

In case of failure of operating equipment at the water control structure, the following shall be determined and/or conducted:

- Probable cause of failure, durations and effects on water control structure operation.
- Whether immediate assistance is required to remedy the problem.
- Whether temporary replacement or temporary alternatives are available.
- Report findings, including imminent deteriorating conditions, and assess the potential impacts of the situation on site operations and all stakeholders (public and private).
- Determine whether the brine pond needs to be drawn down with injection pumps.
- Decide whether to undertake shelter-in-place, a site or an EPZ evacuation.
- Activate brine pond pumping equipment, or if that has failed, alternate pumping equipment.
- Continue frequent monitoring of structures, embankments and water levels for unusual or changed conditions. Implement appropriate additional response actions as necessary.
- Restrict access along roads threatened by a potential flood emergency.

Springs, Seeps or Soft Areas

In the event of the development of new springs, seeps or soft areas, or any changes in the condition of existing areas, the following shall be determined and/or conducted:

- Location of the spring, seep or soft spot.
- Size of affected area.
- Estimated leakage discharge rate.
- Nature of the discharge (whether clear or muddy/silty/cloudy water).
- Brine pond elevation.
- Report findings and assess the potential impacts of the situation on site operations and all stakeholders.



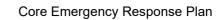
In the event of rapid increase or muddy/silty/cloudy appearance in seepage, the following shall be done immediately to stabilize the berm:

- Notify area leadership especially in the event of imminent deteriorating conditions.
- Cover the areas with filter fabric.
- Ballast filter fabric with a thick layer of gravel or free draining material.
- Consult with additional technical experts, as required, to evaluate and stabilize the berm.
- Decide whether to begin drawing down the pond level in a controlled manner, as required.
- Put support services and/or resources (personnel and heavy equipment) on standby or mobilize resources or and equipment to the site, to repair damages in the pond embankment, as required.
- Continue frequent monitoring of structures, embankments and water levels for unusual or changed conditions. Implement appropriate additional response actions as necessary, based on changing conditions.
- Consult with civil/dam consulting/engineering firm to develop next steps

Abnormal Instrumentation Readings

In the event of abnormal instrumentation readings, the following shall be determined and/or conducted:

- Interstitial space (between the pond liner and secondary containment) to get no levels, unless it's rained.
- Whether the pond level (pond level stick readings) has changed significantly.
- Ensure a visual inspection the brine pond levels has occurred.
- Put support services and/or resources (personnel and heavy equipment) on standby or mobilize resources or and equipment to the site, to repair damages in the pond embankment, as required.
- Consult with civil/dam consulting/engineering firm to develop next steps





SECTION 5: Communications, Media & Public Engagement

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SECTION 5: Communications, Media & Public Engagement

The development and implementation of timely, strategic and effective communications during an incident is critical to protect employees, responders, the public and Plains' reputation.

The Incident Commander (IC) is responsible for establishing communication among the Incident Management Team (IMT) in the Incident Commanded Post (ICP), and ensuring that communication is clear, effective and timely. The Incident Director (ID) is responsible for establishing communication amongst the Corporate Crisis Management Team (CCMT) in the Emergency Operations Centre (EOC), and ensuring that communication is clear, effective and timely. The IC connects with the ID to establish a line of communication between the two teams.

The Liaison Officer is responsible for communicating with government, regulatory and local agencies involved in the response, and obtains support from the Liaison Manager in the CCMT, as required.

The Operations Section Chief supervises tactical planning and Emergency Planning Zone (EPZ) activities to maximize public protection (including communication of EPZ information to the directly affected members of the public) and, as required, obtains support from the Operations Manager in the CCMT.

Plains supplies the communications systems and equipment required to allow for communication between the ICP and the following response personnel and operation centres:

- Evacuation, roadblock and air monitoring personnel
- Staging Area
- Reception Centre
- Plains EOC

Communications equipment will be dependent on the logistics associated with the incident, local cellular coverage and availability of land lines.

Public Information Officer (PIO) and Crisis Communications

The Public Information Officer (PIO) gathers incident information and implements Plains' communication strategy (internally and externally) to interface with media and vital stakeholders. The PIO also supports the communications efforts within the ICP, including the development of messages for positions such as the Liaison Officer and Public Protection Branch.

The IC assigns the PIO at the onset of the emergency. Ideally, the PIO position is filled by a member of the Crisis Communications Team or designated company spokesperson.

The PIO is assisted by the Public Information Manager (PIM) in the CCMT. The PIO and the PIM coordinate their activities to ensure that all stakeholders and Plains employees are informed about the incident using various tools and channels.



5.1 Crisis Communications Team Support

The PIO determines requirements for crisis communications support. This may include introducing additional crisis communications team members to assist with:

- Development and execution of communications activities and materials
- Public Protection measures, such as supporting roadblocks and reception centres
- Site tours for regulatory, government or media representatives
- Working with local agencies in the dissemination of public notifications
- Press conferences and media availabilities
- Community meetings and open houses
- Development and activation of various communication tools
- Activation of media monitoring and public sentiment

5.2 Information Collection Requirements

The goal of communications during a crisis is to protect those involved, which can be accomplished by governing the messages received by the public through various channels, including the media.

To gain and maintain control of the message, critical and factual information must be collected and provided to the PIO or PIM to be shared during an incident. The information in the charts in section 5.2.2 will be used to inform the appropriate individuals/agencies and to produce materials, including media holding statements, public protection branch scripts, evacuation or shelter-in-place notifications and reception centre fact sheets.

5.2.1 Information Collection Sources

Necessary information can be collected via documentation, tools and intelligence from the Planning Section and/or other responders in the ICP (or Virtual Incident Command Post). Relevant forms include:

- ICS 201 Incident Briefing Form
- ICS 202 Incident Objectives
- ICS 204 Assignments List
- ICS 207 Organizational Chart
- ICS 234 Work Analysis Matrix
- ICS 232 Resources at Risk
- Initial Response Checklist
- Incident Action Plan (IAP)
- Incident and emergency response maps



5.2.2 Information Collection Checklists

V	INCIDENT SPECIFICS				
	Time of incident		Injuries		
	Location		Illnesses		
	Product type(s)		Fatalities		
	Asset/facility		Control/Stabilization		
	Cause		Product recovery		
	Quantities		Responders on scene		
	Affected area/EPZ		Dangerous hazards		
V	PUBLIC PROTECTION ACTIONS COMPLETED				
	Shelter-in-place		Notifications (RESPOND)		
	Evacuations		Reception Center		
	Rovers		Evacuation Center		
	Roadblocks		Air monitoring		
	Closures/restrictions		Water monitoring		
	Ignition sources				
V	STAKEHOLDER NOTIFICATIONS COMPLETED				
	Indigenous Communities		Mutual Aid Groups		
	Landowners/residents within and outside EPZ		Hospitals/medical centers		
	Businesses		Critical service providers		
	Regulators		Industry		
	Agencies		Schools/childcare		
	Government (county, provincial, federal)		Industry Partners		



5.3 Regulatory Requirements

The PIO, in conjunction with the PIM and/or Crisis Communications Team, is required to develop a detailed communications plan which may be shared with regulators to outline how and when we will communicate information with affected stakeholders.

The PIO may also be required to engage with the communications teams of regulators, cooperating agencies and/or in a Unified Command to coordinate activities, messages and approvals.

Additionally, detailed communications protocols and plans for emergencies are outlined throughout the Emergency Response Plan.

- Section 1: Initial Response Internal notifications, external notifications and maintaining communications.
- Section 3: Responder Safety and Public Protection Notifications and maintaining communication with members of the public.
- Section 8: Government Agencies and Local Authorities Identifying applicable government agencies and local authorities.
- Section 9: Area Specific Information Contact information for internal personnel, government agencies, local authorities, support services and members of the public.

5.4 Approval Requirements

The PIO leads the development, approval process and distribution of all communications efforts related to the response. The IC has the authority to approve and request distribution of incident-related communications and can delegate this responsibility to the Deputy Incident Commander (DIC). Before any materials or information can be distributed publicly, approval from the IC/DIC is required, and should be approved by the appropriate/available executive and Plains' Legal Team. If in a Unified Command, approvals should be obtained through these Command Staff members or a related delegate.

Sensitive topics (guidelines provided in parentheses)

- Cause of incident (Do not speculate as to a cause, an investigation into root cause is required)
- Volume of release (Until a definitive number is known, stick with qualified statements and a volume range if needed)
- Time to complete clean-up and return to service (Avoid speculation and use appropriately qualified language)
- **Overall cost** (As with volumes, qualify as appropriate)
- **Market/customer impact** (Avoid speculation of market impact, line or facility outage or any mention of customer volumes, commitments or production)
- Joint Venture assets and agreements (Do not forget that some assets are joint ventures and an appropriate communications process will need to be followed)
- **Earnings impact from incident** (Do not speculate. Indicate that the company is focused on responding to the incident and will assess any impact to earnings at a later time)
- **Significant/material regulatory implications or actions** -- either directly from an incident or due to several incidents of a similar nature (Avoid speculation; work with regulators proactively)



5.5 Media Policy

The Media Policy applies to all employees, contractors and third-parties who represent Plains.

The policy is in place to:

- Prevent the improper use or disclosure of material, sensitive or confidential information pertaining to company operations and plans.
- Avoid exposing employees, contractors or third-parties to risk that could result from unapproved or inaccurate disclosure of company information via the media or public.

Outlined in the policy is a limited number of spokespeople who have been provided the proper training and granted permission to address the media with approved messages. All others must adhere to the policy and refer media to the Crisis Communications team.

5.6 Media & Public Interaction Guidelines

During an incident:

- Information moves faster
- Everyone has a voice and a camera
- Conversation is amplified
- Information "right now" trumps "right" information
- Emotion often outweighs fact

During an emergency, media and public access to the incident site is strictly prohibited, unless the PIO or an approved designate has received approval from the IC and it is safe to do so.

Depending on the nature and location of an incident, media representatives, social media bloggers, citizen journalists or activists may attempt to contact or approach Plains representatives, including Public Protection Branch members, local response teams, Calgary office personnel, etc.

If approached, direct all inquiries to the PIO at **example of the PIO** or **example of the PIO**. Media cards for response personnel with contact information will be distributed by the PIO.

If approached by the media or the public:

- Always act polite and professional. Remember, when you are interacting with external audiences, you are representing Plains.
- State you are not the appropriate person to speak with and not a company spokesperson, and direct them to PIO refer to the media card.
- Assume that the interaction is being recorded and you're "on camera."
- Be careful not to deny or confirm information or facts. Simply state that you are not the Public Information Officer and you will immediately redirect their inquiry.
- Never disclose any information about the names of those deceased or injured, or the extent of injuries.
- Be firm people will press for information. It's okay to repeat yourself.



- Never use the phrase "No comment."
- Document the individual's contact information and inform your supervisor and the PIO immediately.
- For media representatives, gather the information on the Media Inquiry Form (Section 6: Forms). Forward the Media Inquiry Form or any call back commitments to your supervisor, PIO and as soon as possible.
- Do not share photos and information regarding the incident online or share sensitive or incidentrelated information such as pictures, emails or voicemails with family and friends.
- Remember that conversations can be overheard and/or eavesdropped by others, especially in public settings.

5.7 General Media & Public Statements

STATEMENT FOR MEDIA REPRESENTITIVES

I am not a company spokesperson. If you would like more information or to talk to a company representative, I can take your name and contact information and pass it along to our Media Relations team and they will get in touch with you.

You can also email your inquiry to

or call our media line at

STATEMENT FOR MEMBERS OF THE PUBLIC

I'm not the best person to answer your questions. Our Community Response team is available to provide you with more information.

They can be reached at or by calling .

5.8 Initial Holding Statements

An integral part of crisis response is the timely development of appropriate and effective communications which share reliable and accurate information. The initial holding statements below is one of the first communication tactics which may be used in an incident and should be completed by the PIO with support from the PIM. The initial holding statement will be reviewed by required parties listed in section 5.3: Approval Requirements.





5.8.1 Pipeline / Facility Release Initial Holding Statement

Pipeline/Facility Release Initial Holding Statement
At approximately □a.m. □ p.m. on (date), PLAINS experienced a (type of) release at our (pipeline / facility) □ east □ west □ north □ south of (city/town/municipality).
We have initiated our emergency response plan, and the (regulator) has been notified. Our staff is working with local first responders on site. Our current priorities are to ensure the safety of all involved, protection of the environment and stabilization of the incident.
The cause of the incident is not yet known. We will provide additional updates as information becomes available.
If you have a media inquiry, please contact or call our media line at or call our media line at .
Approved by Incident Commander:
Date:
Time:

5.8.2 Non-Spill Initial Holding Statement

Non-Spill Initial Holding Statement				
At approximately □ a.m. □ p.m. on (date), a (date) occurred/was reported at PLAINS				
(pipeline / facility) abla east box west box north box south of city/ town/municipality).				
We have initiated our emergency response plan, and the (regulator) has been notified. Our staff is working with local first responders on site. Our current priorities are to ensure the safety of all involved, protection of the environment and stabilization of the incident.				
The cause of the incident is not yet known. We will provide additional updates as information becomes available.				
If you have a media inquiry, please contact or call our media line at				
Approved by Incident Commander:				
Date:				
Time:				



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Core Emergency Response Plan



SECTION 6: Forms

6.1	Form Index	6-1
6.2	Government First Call Communication Form	
6.3	Executive Update Form	6-7
	AER Release Reporting Form	
	Security Threat Assessment Form	
	ICS Forms	
	Public Protection Forms	
	WCSS Ice Safety Plan	



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SECTION 6: Forms

6.1 Form Index

Form	Description			
Government First Call Communication Form				
Executive Update Form				
AER Release Reporting Form				
Security Threat Assessment Fo	prm			
ICS Forms				
Incident Action Plan (IAP) Cove	er Sheet			
ICS 201	Incident Briefing			
ICS 202	Incident Objectives			
ICS 203	Organization Assignment List			
ICS 204	Assignment List			
ICS 204a	Assignment List Attach			
ICS 205	Incident Radio Communication Plan			
ICS 205a	Communications List			
ICS 206	Medical Plan			
ICS 207 (IMT)	IMT Organizational Chart			
ICS 207 (CCMT)	CCMT Organizational Chart			
ICS 209	Incident Status Summary			
ICS 210	Status Change			
ICS 211e	Check-in List (Equipment)			
ICS 211p	Check-in List (Personnel)			
ICS 213	General Message			
ICS 214	Unit Log			
ICS 214a	Individual Log			
ICS 215	Operational Planning Worksheet			
ICS 215a	IAP Safety Analysis			
ICS 220	Air Operations Summary			
ICS 221	Demobilization Check Out			
ICS 230	Daily Meeting Schedule			
ICS 231	Meeting Summary			
ICS 232	Resources at Risk Summary			
ICS 233	Incident Open Action Tracker			
ICS 234	Work Analysis Matrix			
ICS 234 Example	Work Analysis Matrix Example			
Public Protection Forms				
Air Monitoring Form				
Resident Notification Form				
Resident Registration Form				
Roadblock Form				
Media Inquiry Form				
WCSS				
WCSS Ice Safety Plan				

NOTE: For additional employee guidance and tools for initial response activities, please refer to the Plains Initial Response Guidebook.

(For copies please request through



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6.2 Government First Call Communication Form

PMC has adapted the Alberta Energy Regulator (AER) First Call Communication Form to create the Government First Call Communication form. This is to be utilized by PMC personnel for the collection of essential incident details in all operating areas.

General Incident Information					
Regulator contact:	Agency:		Field centre:		
Licensee:	Caller:		Phone:		
E-mail address for release report:					
License #:	Pipeline line #:		Approval #:		
Incident location:////	WM				
Emergency level:					
Serious event?					
If yes, what kind of serious event?	t	□ Other control le	oss	□ Casing failure	
Land type (jurisdiction):	rst Nations		vn – Disposition #:		
Agencies notified:			Date:		
FIRST duty office (DO) contacted:					
DO contact name:					

Release Details						
Volumes						
Substance*	Released (m ³ /10 ³ m ³)	Recovered (m ³ /10 ³ m ³)	Disposal/storage location			
* For emulsion, break down oil & wate	er if possible.					
Description of how the release volu	ume was determined and verified (in	cluding calculations; e.g., spill length	n × width × depth):			
Area affected (length × width): m ²						
How was the area affected determined? (Aerial survey, perimeter walk, range finder, samples taken, etc.):						
Who delineated the spill area (environmental technologist, operator, etc.) and what process was used?						



Core Emergency Response Plan

Reminded licensee to update the Regulator immediately if release volumes or area changes from what was originally reported				
Asked for the immediate submission of photos of the entire spill site to the Regulator and communicated that photos of the cleanup will need to be submitted with the release report.				
Cause of release (suspected or actual)				
Release off lease? Yes No (pipeline right-of-way is off lease)				
If yes, was the landowner notified? Yes No Name of landowner/agency:				
Release within disposition boundary? Yes No				
Outside disposition – was leaseholder notified? Yes No Name of leaseholder:				
If outside disposition, reminded licensee that they will need a TFA.				
Actual incident H ₂ S concentration (if applicable): % / ppm / mol/kmol				
Nearest town: Distance and direction to town:				
Environment affected:				
Distance of release to the nearest water body, watercourse, or waterway:				
How was this distance determined?				
Wildlife/waterfowl/livestock affected:				
Notes/description:				
Confirm how the release has been or will be contained:				
Confirm how the release has been or will be cleaned up:				
Evacuees (#): People injured (#): Fatalities (#):				
Were members of the public affect?				
If yes, indicate if they were				
□ Notified □ instructed to shelter-in-place □ advised to evacuate				



Notes/description:

Media Interest? None	□ Local	□ Regional	□ National		
Damage to public property	? D Minor/no	o damage 🛛 🛛	Substantial (home covered in oil)	□ Extensive (home destroyed)	

Pipeline Specific					
Hit? □Yes □No	Line #:		Test failure? □ Yes □ No		
Normal operating pressure: kPa Maximum operating pressure: kPa					
Is the pipeline shut in, depressured, and isolated?	Y 🗆 Yes 🗆	No			
If yes, date & time:					
What is the total volume of liquid in the pipeline?					
Are there isolation valves? Yes No	If yes, have they	been activated?	es 🗆 No		
Are there any other pipelines that tie into the faile	d line? □ Yes □ No	If yes, have they bee	en shut in/isolated? □ Yes □ No		
Reminded the company to contact the Reg	ulator before excavating	the pipeline.			
□ Reminded, advised, or directed the compan	y that the pipeline is not	to be returned to service	without the Regulators permission.		
Right-of-way (ROW)					
□ Licensee has confirmed when the pipeline R	OW and well were last c	necked. Date:			
How was the ROW surveillance conducted (from the air, by quad, on foot, using infrared, etc.)?					
Requested that daily production volumes for the well/pipeline be submitted within 24 hours.					
Investigation information					
What operations are currently taking place (containment, sampling, line locating, retaining contractors/consultants, pipeline excavation, repair, site access, EM survey, etc.)?					

Canada Energy Regulator Event Reporting Form can be found at:

https://apps.cer-rec.gc.ca/ERS/Contact/Edit



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6.3 Executive Update Form

1. Incident Name	2. Operational Period (Date/Tin	ne)	
	From:	To:	EXECUTIVE UPDATE
3. Operations:			
4. Environmental			
5. Planning			
0.046.0			
6. Other			
7 Drepared by		Data/Tima	
7. Prepared by:		Date/Time	
EXECUTIVE UPDATE FORM			



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Release Report



Initial verbal notification of the release to the AER is required prior to completing this release report.

General Information								
AER FIS incident no .:	EDGE refe	rence no.:						
Date AER notified:	Time:	🗌 p.m. 🔲 a.m.	AER contact:					
Type of report: Click here for list	Projected date f	for final report:						
Incident date:	Time:	□ p.m. □ a.m.	Incident location:	W				
Licensee/Company name :								
Licence no.:	Public lands	Public lands disposition no.: Click here for list						
EPEA approval no.:	Scheme/Pe	rmit approval no.:		Other AER approval no.:				
Form completed by:		Phone number:						

Release Volume Details If volumes change from what was initially reported, then verbal notification to the AER is required.						
	m ³	m³	Click here for list		W	
	m ³	m³	Click here for list		W	
	m ³	m ³	Click here for list		W	
Gas	10 ³ m ³					
Release rate:	Duration of release:					

* Refer to ST107 for the list of AER-approved oilfield waste management (WM) facilities.

Waste Recovery Volume Details					
Waste substance	Volume recovered	Shipped to (waste receiver)*	Licence/ approval no.*	Location	
Excavated soil/solids removed	m ³	Click here for list		W	
	m³	Click here for list		W	
Contaminated surface water and/or snow removed	m ³	Click here for list		W	
	m ³	Click here for list		W	
Washwater and/or freshwater used	m ³	Click here for list		W	
	m ³	Click here for list		W	
Vegetation/crop bagged and/or removed	m ³	Click here for list		W	
	m ³	Click here for list		W	
* Refer to ST107 for the list of AER-approved oilfield waste management (WM) facilities.					
Contaminated soils storage: Yes	□ No □ On site □	Off site - If off site, enter lo	ocation: W		
On-site waste treatment: Yes	No Waste Treatment	Description:			

Release Containment Details
U Within well/facility lease boundary — Contained to working surface of lease boundary: Yes No
Outside well/facility lease boundary
Release contained by berm: Yes No Release contained by liner: Yes No Liner type (<i>Directive 055</i>): Click here for list
Release onto land/soil: Yes No Surface soil type: Click here for list Subsurface soil type: Click here for list
Release Site Details
Land jurisdiction type: Click here for list Environment affected: Click here for list Area affected: m ²
Within public lands disposition boundary Outside public lands disposition boundary – TFA number:
Distance to closest water body: m Distance to nearest town: km Name of nearest town:
Distance to closest water well: m Distance to nearest permanent dwelling: km
Release Impacts Details
Incident/release H ₂ S concentration: Unit of measurement: 0% 0 ppm 0 mol/kmol
Wildlife/livestock affected: Click here for list Equipment loss: Click here for list
Emergency response plan (ERP) activated: 🗌 Yes 🗌 No
□ Public affected □ Public evacuation Number evacuated:
□ Landowner notified* □ Leaseholder notified*
WH&S notified* Number of injuries: Number of fatalities:
* Provide details in Additional Notifications box.
Bineline Details (fill in for AEB licensed pineline incident)
Pipeline Details (fill in for AER-licensed-pipeline incident) Pipeline is not to be returned to service without permission from the AER. See www.aer.ca for definitions for incident type and cause.
Incident type: Click here for list Incident cause: Click here for list
Licence number: Line number: Installation number (if applicable):
Start location: W End location: W ABSA registration number (if applicable):
Associated facility location: W Associated facility licence number:
Test failure Retest segment Pipeline repair pretested Cathodic protection
Type of external coating: Corrosion mitigation/monitoring program:
Normal operating pressure: kPa Maximum operating pressure kPa
Date line shut in: Pipeline returned to service: No Yes Date:
Clean-up/Remediation Details
All releases must be remediated or managed in a matter satisfactory to the AER.
Clean-up status: Click here for list Final cleanup/remediation completion date:
In-situ remediation implemented
Remediation guidelines used (choose all applicable): Tier 1 Tier 2 SST SCARG CCME Exposure control
Method of subsurface delineation: Confirmatory samples taken:
Remediation certificate applied for: Yes No

Additional Incident Notification Details						
Name of agency/landowner	Person notified / reference no.	Phone number	Date			

Incident Details
Submit photos of the incident and cleanup/remediation to the AER. Fill in all text boxes below:
Detailed description of circumstances leading up to the release:
How release was identified:
Steps/procedures taken to minimize, control, or stop release:
Steps taken to contain release:
If release was on lease steps taken to ensure no migration off lease (including subsurface migration):
Description of how release volume(s) was determined and verified (include any calculations used):
How the affected area was determined (include any calculations used):
Description of environmental impact:
Clean-up operation details:
Remediation operation details:
Release cause: Click here for list
Description of root cause:
Steps/procedures taken to prevent similar future releases:
Additional comments:



Complete all areas (as applicable), with information that is known to be factual. Please do not add any information that has not been verified.

ASSESSMENT FORM COMPLETED BY Name: Contact #:						ADVERSARIES
Title: Email:					Are physical and/or cyber-security adversaries present and a	
Date: Time:					Has the landowner been apprised of right-of-entry informatio	LANDOWNER (IF APPLIC
OTHERS INCLUDED IN THE ASSESSMENT	osition & Business Unit:				Has the right-of-entry (ROE) been served and explained?	11?
Name: P	Usilion & Busiliess Unit.				Where is the person's residence in relation to the ROW?	
						INDUSTRY THREAT
THREAT REPORTED BY THE FOLLOWING SOURCE					Has another operator within the same industry and/or region	
	er (describe):				Has another operator within the same industry and/or region	
Date: Name: Contact #: Title:					Does a current threat that is directed at the company exist?	
Time: Email: Method of Reporting: Business Unit:						CREDIBILITY
TYPE OF THREAT - PHYSICAL					Does the threat specifically identify a target?	OREDIDIENT
					Does the threat specify a time it is to be carried out?	
Physical Threat ICS/SCADA Civil Disturbance Mischie Verbal Threat Suspicious Mail/Packages Vandalism	ef 🗖 Cyber				Is it probable that the threat will be carried out?	
□ Interference (blocking access to right-of-way ROW) □ Other (describe):					Threat is: O Not Credible Unknown	Believed Confirmed
TYPE OF THREAT - CYBER						CAPABILITY
□ Malware □ ICS/SCADA □ Social Engineering □ Ransomware □ DOS	B Breach	h			Is there a degree of sophistication required for the adversary	to commit a crime against the asset?
Cloud Related Fraud Malicious Insider Identity Theft Wea	ther Related				Is the person or group considered capable of carrying out a	
Personally Identifiable Information (PII) Email Compromise Other (describe):					young/middle aged; or elderly; physical impediment; unhealt	hy; unfit etc.)
ADVERSARY: PERSON OR GROUP					2	SUMMARY OF THRE
Resident/Occupant Landowner Activist First Nations Employee Other (describe):	Protestor	🗖 Put	olic		Summarize Circumstances:	
Name: Contact #:						
Physical Address: Website/URL:						
Known Vehicles: Email:						SECURITY THREAT ASSES
Age:					CREDIBILITY	PROBABILITY
THREAT CIRCUMSTANCES						LOW (VALUE OF 1)
Against Employee Against Company Against Contractor Against Indust Describe circumstances/what occurred/what location:	try 🗖 Uncon	nfirmed				—
Is there history of the same person or group making a threat?	□ Yes	s 🗖	No	D N/A	A possible physical and/or cyber threat of harm to the company and/or to personnel has been made.	Threat is unlikely to be car
If yes, describe:		0 1				MEDIUM (VALUE OF
Date: Place of Occurrence:						
Are there witnesses to the occurrence?	□ Yes	s 🗖	No	D N/A	A probable physical and/or cyber threat of harm to	Threat is likely to be carrie
If yes, Name of witnesses: Yes, witness st	tatements have been comp	pleted and prov	vided		the company and/or to personnel has been made.	-
□ No, witness sta	tements have not been co	mpleted or pro	ovided			HIGH (VALUE OF 3)
The threat was direct and clearly understood. Explain:		s 🗖	No	□ N/A		—
The threat was indirect/Vague/Implied. Explain:					A confirmed physical and/ or cyber threat of harm to the company and/or to personnel has been made.	Threat is likely to be carri
The threat was indirect vague inipited. Explain:				D N/A	, ,	
				5	Credibility	+ Probability + Conseque
IMPACTED ASSET(S) & USER(S)						(LOW = 3 MEDIUM = 4-6 HI
Asset Contact Name Phone		Em	all			
						SECURITY THREAT LEVEL =
						SECURITY THREAT LEVEL CL
REPORTED TO POLICE						Low Level Threat \rightarrow 1-3 (Standard C
Date: Investigator Name:					Threat deemed LOW for an illegal and/or violent	ecurity Plan Required (Standard Opera
Police Agency: Email:						k does not imply "no threat" but indicates the
Is the matter under investigation? Explain:	🗖 Yes	🗖 No				All standard security countermeasures sh
Are charges laid? Explain:	🗖 Yes	🗖 No			□ Medium	Level Threat → 4-6 (Possible Duratio
Have the Police commented? Explain:	🗖 Yes	🗖 No			Activate Security Threat Response Plan Operation	
					Threat deemed to be MEDIUM for an illegal and/or violent	act (including Cyber) towards Plains assets,
ASSET HISTORY			-	Unknown	A MEDIUM categorization of risk means that	
ASSET HISTORY					in position should remain, and furt	her security measures should be considered
Has the asset/user recently been victim of a physical and/or cyber-security incident?	Yes Ves	No		Linknown		
Has the asset/user recently been victim of a physical and/or cyber-security incident? Has the asset/user been victim of a physical and/or cyber-security incident in the past?	YesYes	□ No		Unknown		-
Has the asset/user recently been victim of a physical and/or cyber-security incident? Has the asset/user been victim of a physical and/or cyber-security incident in the past? RECENT EVENTS	🗆 Yes	🗖 No			Activate Security Threat Response Plan Oper	rational Security Countermeasures (P
Has the asset/user recently been victim of a physical and/or cyber-security incident? Has the asset/user been victim of a physical and/or cyber-security incident in the past? RECENT EVENTS Are there any recent landowner issues and/or concerns?	Yes Yes	□ No □ No		Unknown	Activate Security Threat Response Plan Oper Based on available information and intelligence,	rational Security Countermeasures (P , there appears to be a HIGH risk for an illeg
Has the asset/user recently been victim of a physical and/or cyber-security incident? Has the asset/user been victim of a physical and/or cyber-security incident in the past? RECENT EVENTS Are there any recent landowner issues and/or concerns? Are there any recent termination issues and/or concerns?	Yes Yes Yes	NoNoNo		Unknown Unknown	Activate Security Threat Response Plan Oper Based on available information and intelligence, op	rational Security Countermeasures (P , there appears to be a HIGH risk for an illeg perations and/or other regional industry oper
Has the asset/user recently been victim of a physical and/or cyber-security incident? Has the asset/user been victim of a physical and/or cyber-security incident in the past? RECENT EVENTS Are there any recent landowner issues and/or concerns?	Yes Yes	□ No □ No		Unknown	Activate Security Threat Response Plan Oper Based on available information and intelligence,	rational Security Countermeasures (P there appears to be a HIGH risk for an illeg perations and/or other regional industry oper mminent threat to experience a violent or ille
Has the asset/user recently been victim of a physical and/or cyber-security incident? Has the asset/user been victim of a physical and/or cyber-security incident in the past? RECENT EVENTS Are there any recent landowner issues and/or concerns? Are there any recent termination issues and/or concerns? Are there any recent employee performance issues and/or concerns?	Yes Yes Yes Yes	 No No No No No 		Unknown Unknown Unknown	Activate Security Threat Response Plan Oper Based on available information and intelligence, op A HIGH categorization of risk means that Plains is at HIGH or ir Any security measures that are currently in posit	, there appears to be a HIGH risk for an illeg berations and/or other regional industry oper- mminent threat to experience a violent or illeg

Security Threat Assessment Form

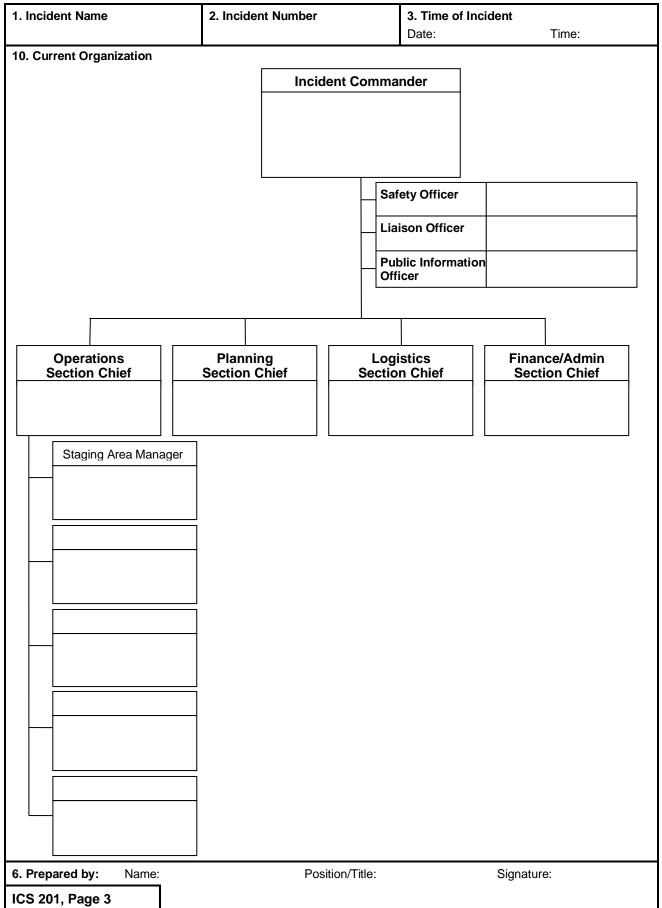
/ERSARIES						
/, area or region?	🗖 Yes	🗖 No	Unknown			
R (IF APPLICABLE)		7 Ni				
	Yes Yes	□ No □ No	UnknownUnknown			
			L UIKIOWI			
TRY THREATS						
cyber-security related threats?	☐ Yes	□ No	Unknown			
physical and/or cyber-security threat?	□ Yes					
	Yes	🗖 No	Unknown			
EDIBILITY						
	T Yes	□ No				
	☐ Yes	□ No				
	🗖 Yes	🗖 No	Unknown			
irmed Comments:						
PABILITY						
t the asset?		ΠY	res 🗖 No			
g., fit/health, physically imposing;		ΠY	res 🗖 No			
RY OF THREAT						
OBABILITY VALUE OF 1)	CC	NSEQUENCE				
		7				
ikely to be carried out.	Little or n	io impact on as	set(s).			
-						
I (VALUE OF 2)						
ely to be carried out.	Impacts are felt, but not critical.					
VALUE OF 3)						
		-				
ely to be carried out.	Critical impact(s) tha					
	los	s, and/or injury.				
+ Consequence =						
DIUM = 4-6 HIGH = 7-9)						
10M - 4-0 HIGH - 7-9)						
EVEL =						
AT LEVEL CLASSIFICATION						
(Standard Operating Procedures)						
andard Operating Procedures in plac s Plains assets, operations and/or other reg	-	or industry at	large			
but indicates the situation should or may co			large			
ermeasures should remain in place.		u .				
sible Duration: Days, Weeks, Months	s)					
asures (Physical) and/or Information		ermeasures (C	yber)			
s Plains assets, operations and/or other reg	gional industry operate	ors, or industry at	large.			
r violence or illegal incident(s) and any secu d be considered as per organizational secu						
i de considered as per organizational secul	my countermeasures.					
(Possible Duration: Days or Weeks)			(0.1.)			
measures (Physical) and/or Informat						
risk for an illegal and/or violent act (includin al industry operators, or industry at large.	ng Cyber) occurring to	owards Plains as	sets,			
a violent or illegal incident(s) and immediat						
nced security measures should be conside		mai countermeas	ures.			
ive supervision and management strategie	s to be applied.					
		VICP - Vei	r 3.0 - Aug 202			

INCIDENT BRIEFING FORM (ICS 201)

1. Incident Name	2. Incident Number	3. Time of Incident	
		Date:	Time:
4. Map/Sketch Include sketch, showing the total area of a trajectories, impacted shorelines, or other	operations, the incident site/area, impac graphics depicting situational status an	ted and threatened areas, ove	
5. Situation Summary and Health a Recognize potential incident health and so (remove hazard, personal protective equip	afety hazards and develop necessary m	easures to protect responders	from those hazards
6. Prepared By Name: ICS 201, Page 1	Position/Title:	Signati	Jre:

INCIDENT BRIEFING FORM (ICS 201)

1. Incident Name		2. Incident Number	3. Time of Incident	
			Date:	Time:
7. Incident		8. Initial Incident Objectives		
Life Saf				
Inciden	t Stabilization			
Minimiz	e Impacts			
9. Summai	y of Current Actions			
Time	Actions			
6. Prepare	d by: Name:	Position/Title:	Signature	:
ICS 201, I				



INCIDENT BRIEFING FORM (ICS 201)

INCIDENT	BRIEFING	FORM	(ICS 201)
----------	----------	------	-----------

1. Incident Name	2. Incident Number				3. Time of Incident	
					Date: Time:	
11. Resources Summary	Resources	Date/Time		Arrived?		
Resources Needed	Identifier	Ordered	ETA	1	Notes (Location/Assignment/Status)	
6. Prepared by: Name:		Posit	ion/Title:		Signature:	
ICS 201, Page 4						

1. Incident Name	2. Operational Perio	2. Operational Period (Date/Time)			
	From:	То:	INCIDENT OBJECTIVES ICS 202-OS		
3. Overall Incident Objective(s)					
Life Safety Incident Stabilization					
Minimize Impacts					
4. Objectives for specified Operational Pe	riod				
5. Safety Message for Specified Operation	nal Period				
Approved Site Safety Plan Located at:					
6. Weather See Attached V	Veather Sheet				
7. Tides/Currents See Atta	ached Tide/Current Data				
8. Time of Sunrise	Time of Sunset				
9. Attachments (mark "X" if attached)					
Organization List (ICS 203-OS)	🗌 Medical Plan (ICS 206-OS)	Resource at Risk Summary (ICS 232-OS)			
☐ Assignment List (ICS 204-OS)	Incident Map(s)	☐ Incident Status Summary (ICS 209-OS)			
☐ Communications List (ICS 205-OS)	Traffic Plan	□			
10. Prepared by: (Planning Section Chief)	1	Date/Time			
INCIDENT OBJECTIVES		ICS 202-03	2		

1. Incident Name	2. Op	erational Period (Date/	Time)	ORGANIZATION ASSIGNMENT LIST				
	From	: То:			ICS 203-OS			
3. Incident Commander			7. OPERATION SEC	TION				
Primary		Deputy						
Federal:				Chief				
State:				Deputy				
RP(s):			a. Branch I	l – Division Gr	roups			
Safety Officer:			Br	anch Director				
Information Officer:				Deputy				
Liaison Officer:			Division	n/Group				
4. Agency Representati	/es		Division	n/Group				
Agency Name			Division	Group				
			Division	Group				
			Division					
			b. Branch	II – Division/G	iroups			
			Br	anch Director				
				Deputy				
5. PLANNING SECTION			Division					
Chief			Division	•				
Deputy			Division					
Resources Unit			Division					
Situation Unit			Division					
Environmental Unit				III – Division/G	Groups			
Documentation Unit			Br	anch Director				
Demobilization Unit				Deputy				
Technical Specialists			Division	-				
			Division					
			Division					
			Division					
			Division					
6. LOGISTICS SECTION				d. Air Operations Branch				
Chief				rations Br. Dir				
Deputy a. Support Branch				cal Supervisor				
a. Support Branch Director				er Coordinator				
Supply Unit								
Facilities Unit			8. FINANCE/ADMINI	g Coordinator	CTION			
Transportation Unit			0. FINANCE/ADMINI	STRATION SE	CHON			
Vessel Support Unit				Chief				
Ground Support Unit				Deputy				
b. Service Branch				Time Unit				
Director			Pro	curement Unit				
Communications Unit				on/Claims Unit				
Medical Unit				Cost Unit				
Food Unit			—					
9. Prepared By: (Resou	ces Init)		Date/Time					
Stripping by (Resou	cos onity		Date/ Inne					
ORGANIZATION AS	SIGNM	ENT LIST	June 2000		ICS 203-OS			

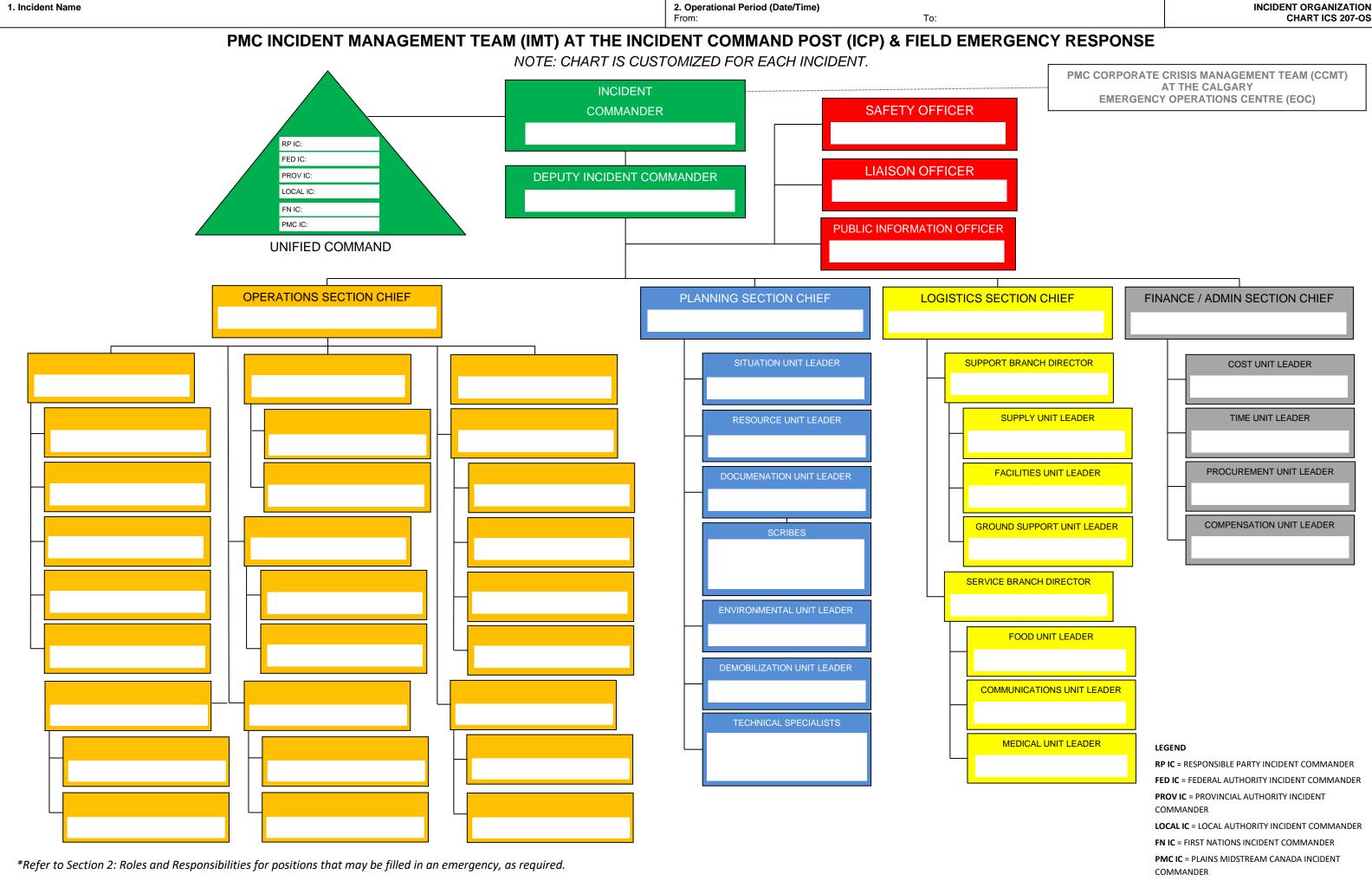
1. Incident Name	2. O	peratio	nal Period (Date/Time))	ASSIGNMENT LIS	NT LIST ATTACHMENT		
	Fron	-	To:			ICS 204a-OS		
3. Branch	<u>.</u>		4. Division/Group					
5. Strike Team/Task Force/Resource Identifi	er	6. Lea	ader	7. Assi	gnment Location			
8. Work Assignment Special Instructions (if	any)	<u> </u>				[Ops]		
9. Special Equipment/Supplies Needed for A	ssign	ment (i	f any)			[Ops]		
10. Special Environmental Considerations (i	if any)					[P.S.C.]		
						• -		
11. Special Site-Specific Safety Consideration	ons (if	any)				[S.O.]		
Approved Site Safety Plan Located at:								
		e Clean	up Assessment Team	Report				
Weather Forecast Tid Ueather Forecast Tid Ueather Uea	es							
ASSIGNMENT LIST ATTACHMENT			June 2000			ICS 204a-OS		

1. Incident Name	2. Ope From:		eriod (Date/Time) To:			Assignment I ICS 204-	List -0S
3. Branch	FIUIII.		sion/Group				00
			-				
5. Operations Personnel	Name		Affiliation		Con	tact # (s)	
Operations Section Chief:							_
Branch Director:							_
Division/Group Supervisor:							_
6. Resources Assigned This Period			"X" indicates		nent with sp	pecial instructions	
Strike Team/Task Force/Resource Identifier	Leader	(Contact Info. #	# of Persons	No	otes/Remarks	↓
		-					
8. Special Instructions for Division/0	Group						
9. Communications (radio and/or ph Name/Function		umbers needed for this assign Radio: Freq./System/Channel		ment)	Phone	Pager	_
Emergency Communications Medical	Evacuat	ion		Other			
10. Prepared By (Resource Unit Lea		e/Time	11. Approved By	_	ction Chie	f) Date/Tim	e
ASSIGNMENT LIST		June	e 2000			ICS 204-C)S

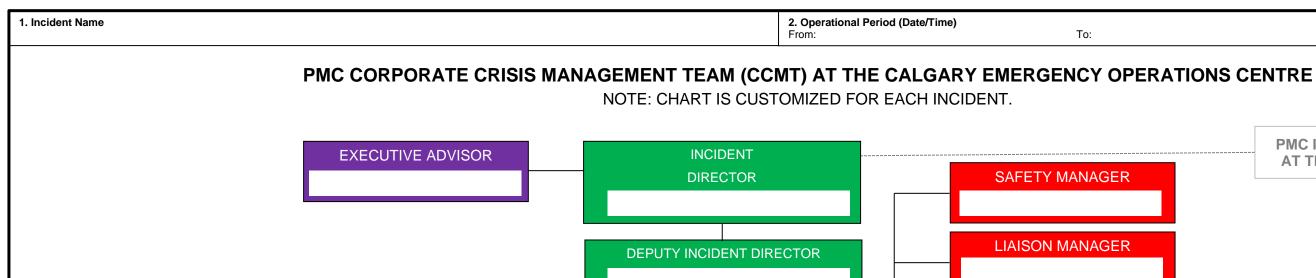
1. Incident Name			Period (Date / Time)	INCIDENT RADIO COMMUNICATIONS PLAN					
		From:	To:		ICS 205-OS				
3. BASIC RADIO CHANNEL	USE								
SYSTEM / CACHE	CHANNEL	FUNCTION	FREQUENCY	ASSIGNMENT	REMAKRS				
4. Prepared by: (Communications Unit) Date / Time									
INCIDENT RADIO COMMUNICATIONS PLAN June 2000 IC									

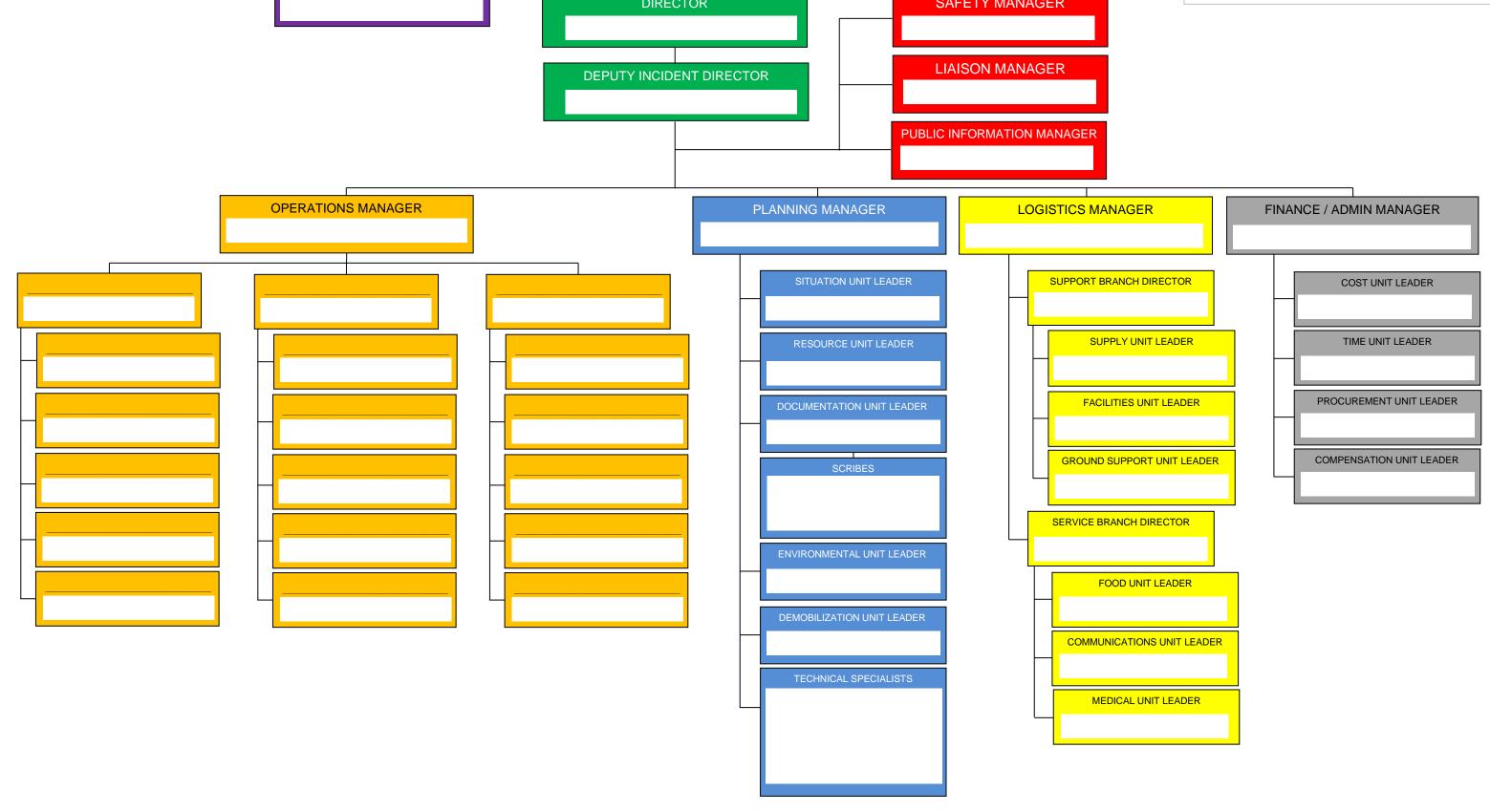
1. Incident Name		2. Operation	al Period (Date / Time)	сомми	COMMUNICATIONS LIST		
		From:	To:		ICS 205A-OS		
3. Basic Local Commun	nications Information	tion					
Assignment	Nam	ne	Method(s) of contact (radio fr	equency, phone, pag	ger, cell #(s), etc.)		
4. Prepared by: (Comm	unications Unit)		Date	Time			
COMMUNICATION	S LIST		June 2000		ICS 205a-OS		

1. Incident Name			2. Operational Perio					ME		L PLAN
			From:	To:					ICS	206-OS
3. Medical Aid Statio	ons									
Name			Location			Contact #		P	Paramedics On site (Y/N)	
4. Transportation										
Ambulance Service			Add	ess		Con	tact #		Paramedics On board (Y/N)	
5. Hospitals										
Hospital Name		А	ddress	Contac	ct #	Travel Time Air Ground		E	Burn	Heli-
						All	Groun		Ctr?	Pad?
6. Special Medical E	Emergency Pro	ocedu	res		·					
7. Prepared by: (Me	dical Unit Lead	der)	Date/Time	8. Reviewed by	y: (Safety C	Officer)	Date/Time			
MEDICAL PLAN			Jun	e 2000				IC	S 20(6-OS



INCIDENT ORGANIZATION CHART ICS 207-OS





INCIDENT ORGANIZATION CHART ICS 207-OS



1. Incide	nt Name				2. Oper	ational	Period (Da	te/T	ïme)	Time of R	eport				
					F			т							STATUS
2 Cmill C	Status (Esti	matad	n Dorr		From:		/00C1	Т				50			5 209-OS
3. Spiil S	status (Esti	mated,	In Barro	eis)	ĮOp	s & EUL	/550]		8. Equipment Res	ources	A	ahla/	1		[RUL]
Source S	Status:	Remain	ing Pote	ential	(bbl):				Description	Ordered	Availa Stage		Assig	ned	Out of Service
Secur					e (bb/hr)				Spill Resp. Vsls						
Unsec		Si	nce Las	t Rep	ort	To	otal		Fishing Vessels						
Volume S	Spilled								Tugs						
	lance/Oil B	Budget							Barges						
Recovere	ed Oil								Other Vessels						
Evaporat															
	Dispersion														
Chemical E	Dispersion								Skimmers						
Burned															
Floating,	Contained														
Floating, U	ncontained								Boom (ft.)						
Onshore									Sbnt/Snr Bm. (ft.)						
		Total	spilled o	oil acc	ounted f	for:									
4. Waste	Managem	ent (Est	imated)		[Ops/[Disposal]								
				,					Vacuum Trucks						
		Re	covered		Store	d I	Disposed								
Oil (bbl)					01010	~	2.000000								
Oily Liqui	ids (bbl)								Helicopters						
Liquids (t				-											
Oily Solic				-					Fixed Wing						
Solids (to									i ixou tring	1					
	5113)							-							
5. Shore	line Impact	ts (Estir	nated. i	n mil	es)	[PSC/	EUL/SSC]		9. Personnel Reso	ources			I		[RUL]
	-	т` –		r	,					People	in	Door	ole in	Tot	al People
Degree o	of Oiling	Affec	ted	Cle	aned	To Be	Cleaned		Description	Cmd. Pc			Field		n Scene
Light		_						_	Federal						
Medium									State						
Heavy									Local						
	Total								RP						
6. Wildlif	fe Impacts					[Ops/W	/ildlife Br.]		Contract Personnel						
					tal that are	Died	in Facility		Volunteers						
		threatened					-	-							
D	Captured	Cleaned	I Rele	eased	DOA	Euth.	Other	-		-					
Birds						_		-	T . 10						
Mammals						_		-	Total Response Pe	ersonnel fron	n all Or	ganiza	ations:		
Reptiles						_			10. Special Notes						
Fish															
Total															
	Chatura		1		1	10-4-	tu ()(f(1) = -1	1							
7. Safety Status [Safety Officer]															
			Since	Last F	Report	٦	Total								
Respond	er Injury							1							
Public Inj															
	··· /														
11. Prepa	ared by: (S	ituatior	Unit L	eade	·)										
	NT STAT		11/11/1	RV			June	200	10				1	0.9.0	209-OS
	INT STAT	000		u v I			June	200					ľ	002	.03-03

1. Incident Name	2. Operational Period			STATUS CHANGE							
	From:	To:		ICS 210-OS							
3. Personnel / Resource Name or I.D.											
4. New Status											
Available / Staged	Assigned		🗌 Ou	t of Service							
5. FROM Location or Status		6. TO Location or Status									
7. Time of Location / Status Change											
8. Comments											
9. Prepared by:		Date / Time									
10. Processed by: (Resource Unit)		Date / Time									
STATUS CHANGE	June	2000		ICS 210-OS							

CHECK-IN LIST EQUIPMENT - (ICS 211e)

1. Incident Name:	1. Incident Name: 2. Operational Period:					eck-In Location 🗆 Con	Command Post		
						🗆 Sta	ging Area 🛛 🗆 Oth	er (Shelter, C-F	OD, etc.)
		F	rom:	То:		🗆 DO	С		
4. Equipment Descripti	ion 5. E	Equipment Ide	entifier	6. Supplier/Owner	7. Assignment		8. Contact Information	9. Time In	Time Out
10. Prepared by:Name:			Position/Title:			Signature:			
ICS 211e	Date/Time: _								

CHECK-IN LIST – PERSONNEL (ICS 211 P)

1. Incident Name:		2. Operational Period:	•	3. Check-In Location Command Post					
				□ Staging Area □ Othe	er (Shelter, C-PC	DD, etc.)			
		From: To:							
4. Name (First, Last)		5. Company/Agency	6. ICS Section	7. Contact Information	8. Time In	Time Out			
6. Prepared by: Name:		Signature:							
ICS 211p	Date/Time:								

1. Incident Name	2. Date and Time of Message		GENERAL MESSAGE ICS 213-OS
3. ТО:	ICS Position		
4. FROM:	ICS Position		
5. Subject:			
6. Message			
7. Reply			
8. Signature / Position (person replying)		Date / Time of	f reply
GENERAL MESSAGE	June 2000		ICS 213-OS

General Message (ICS213)

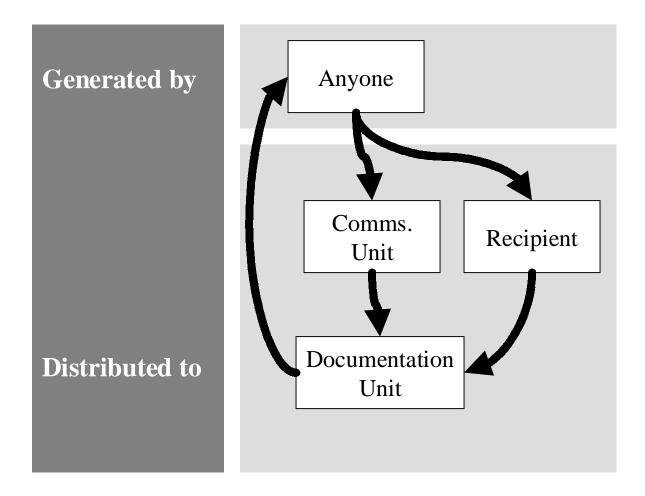
Purpose. The General Message is used by:

- Incident personnel to record incoming messages which cannot be orally transmitted to the intended recipients;
- Command Post and other incident personnel to transmit messages to the Incident Communications Center for transmission via radio or telephone to the addressee;
- Incident personnel to send any message or notification to incident personnel which requires a hard-copy delivery;
- Incident personnel to place resource orders.

Preparation. This form is prepared by any incident personnel needing to transmit a hard-copy message. The recipient should send a timely reply to the originator, as necessary.

Distribution. Upon completion, the General Message may be hand-carried to the addressee or to the incident Communications Center for transmission.

Originator retains a copy of the form. All completed original forms MUST be given to the Documentation Unit.



UNIT LOG (ICS 214)

1. Incident Nar	me	2. Operational Period (Date/T	ime)
		From:	То:
3. Unit Name/E	Designators:	4. Unit Leader	
		Name:	ICS Position:
4. Unit Leader		1	
	NAME	ICS POSITION	HOME BASE
<u></u>			
6. Activity Log	1		
TIME	<u>,</u>	MAJOR EVENTS	
_			
7. Prepared By	y: Name:	Position/Title:	Signature:
ICS 214			Date/Time:

UNIT LOG (ICS 214)

6. Activity Log	(continu	ed)		
TIME			MAJOR EVEN	TS
	1			
7. Prepared By	y: Name:_		Position/Title:	Signature:
ICS 214				Date/Time:

INDIVIDUAL LOG (ICS 214a)

1. Incident Nam	ie			(Date/Time)	Ta
		From:			To:
3. Individual Na	ime:	4. ICS Sec	tion:		5. Assignment/Location
6. Activity Log					I
TIME			MA	JOR EVENTS	
7. Prepared By:	. Name:	Po	osition/Title:		Signature:
ICS 214a	Date/Time:				

1. Incident Na	me	2. Operational Period (Date/Time)										OPERATIONAL PLANNING WORKSHEET							
		F	rom:		To:											1		ICS 2	215-08
		5. Resource/Equipment										9. "X" here if 204a Needed							
3. Division/ Group or Location	4. Work Assignments	Resource														6. Notes/Remarks	7. Reporting Location	8. Requested Arrival Time	•
		Req.																	
		Have																	
		Need																	
		Req.																	
		Have																	
		Need																	
		Req.																	
		Have														-			
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		Have																	
		Need																	
		Req.																	
		Have																	E
		Need																	
		Req.																	
		Have														-			
		Need														-			
1	0. Total Resources Require	ed														13. Prepared by:			
11. Total Resources On Hand															— Date Time		·		
12. Total Resources Needed																		me	
PERATIO	NAL PLANNING WOF	RKSHE	ET	1	1					June	2000	1	1	1		1		ICS 21	5-0

1. Incident Name:		2. Operational Period (Date/ From: To:	Time)	IAP SAFETY ANALYSIS 215a-OS
3. Incident Area	4. Hazards/Risks		5. Mitigations	
7. Prepared by:		Date/Time	I	
- F				
IAP SAFETY ANALYSIS		June 2000		ICS 215a-OS

1. Incident Name			2. Operational Period (Date / Time) From: To:						AIR OPERATIONS SUMMARY ICS 220-OS		
3. Distribution	Fixed-Wing	g Bases				-	🗌 Helit	base			
4. Personnel and Communications Air Operations Director Air Operations Director Air Tactical Supervisor Air Support Supervisor Helicopter Coordinator				Air / A	ir Frequency		Ground quency	5. Remarks (Hazards, Pric	Spec. Instructio orities)	ns, Safety Note	95,
Helicopter Coor Fixed-Wing Coor								-			
6. Location / Function	7.	Assignment		8. Fixed-Wing			copter	10. Ti	me	11. Aircraft	12. Operating
				0.	TYPE	NO.	TYPE	Available	Commence	Assigned	Base
		13. TOTALS									
14. Air Operation Supp	port Equipment					15. Prepare	ed by		Date / Time		
AIR OPERATIONS	SUMMARY				June 20	000				IC	CS 220-OS

1. Incident Name	2. Operational Period (Date / Tim	•	DEMOB. CHECK-OUT
3. Unit / Personnel Released	From: To:	4. Release Date / Time	ICS 221-OS
5. Unit / Personnel			
You and your resources have b (Demob. Unit Leader "X" appro	peen released, subject to signoff from priate box(es))	the following:	
Logistics Section			
Supply Unit			
Communications Unit			
Facilities Unit			
Ground Unit			
Planning Section			
Documentation Unit			
Finance / Admin. Section			
Other			
6. Remarks			
7. Prepared by:	I	Date / Time	
DEMOB. CHECK-OUT	June 2000		ICS 221-OS

1. Incident N	ame	2. Operational Period (Date/Time	DAILY MEETING SCHEDULE		
		From: To:	ICS 230-05		
. Meeting So	chedule (Commonly-ł	neld meetings are included)			
Date/ Time	Meeting Name	Purpose	Location		
	Tactics Meeting	Develop primary and alternate Strategies to meet Incident Objectives for the next Operational Period.	PSC, OPS, LSC, EUL, RUL & SUL		
	Planning Meeting	Review status and finalize strategies and assignments to meet Incident Objectives for the next Operational Period.	Determined by the IC/U	c	
		Present IAP and assignments to	IC/UC, Command Staff,		
	Operations Briefing	g the Supervisors / Leaders for the next Operational Period.	General Staff, Branch Direc Div. Sups., Task Force/Strik Team Leaders and Unit Lea	ke	
	Unified Command	Review/ identify objectives for			
	Objectives Meeting		Unified Command members	s	
. Prepared b	oy: (Situation Unit Lea	ader)	Date/1	lime	
AILY ME	ETING SCHEDUL	E		ICS 230-OS	

1. Incident Name	2. Meeting Date/Time	MEETING SUMMARY ICS 231-OS
3. Meeting Name		
4. Meeting Location		
5. Facilitator		
6. Attendees		
7. Notes (with summary of decisions and	l action items)	
8. Prepared by:	Date/Time	
MEETING SUMMARY	June 2000	ICS 231-OS

1. Incid	lent Name	1	2. Operational Pe	riod (Date/Time)	RESOURCES AT RISK SUMMARY
			From:	To:	ICS 232-OS
3. Envi	ronmenta	Iy-Sensitive Areas	and Wildlife Issues	;	
Site #	Priority	Site Name and/or I	Physical Location	Site Issues	
Narrativ					
Indiatio	C				
					-
	1	ral and Socio-econ			
Site #	Priority	Site Name and/or I	Physical Location	Site Issues	
	Γ				
Narrativ	<u> </u>				
Nallauv	e				
5. Prep	ared by: (Environmental Unit	Leader)	Date/Ti	ime
RESO	URCES	AT RISK SUMM	IARY	June 2000	ICS 232-OS

Electronic version: NOAA 1.0 June 1, 2000

1. Incident Name:	:			Incident Open Action Tracker ICS 233-OS			
2. No.	3. Item	4. For/POC	5.Briefed POC (X)	6. Start Date	7. Status	8. Target Date	9 .Actual Date
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
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19							
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21				1			
22				1			
23				1			
24							
25							
26							
27							
28				1			
29				1			
30				1			
31							
32							

1. Incident Name: 2. Operational Period From: To:__ 3. Operation's Objectives 4. Optional Strategies 5. Tactics/Work Assignments (DESIRED OUTCOME) (HOW) (WHO, WHAT, WHERE, WHEN)

WORK ANALYSIS MATRIX (ICS 234)

6. Prepared By:	Name:	Position/Title:	Signature:	
,				
ICS 234	Date/Time:			

WORK ANALYSIS MATRIX FORM INSTRUCTIONS (ICS FORM 234-OS)

Purpose. The Work Analysis Matrix is designed to help select the best strategies and tactics to achieve the operational objectives. This optional form assists staff in carrying out incident objectives by outlining the who, what, where, when, and how of the response. The tactics from this form carry forward to the "Work Assignment" on the ICS-215. Another purpose of the ICS-234 is that it presents alternative (or what-if) strategies and tactics to respond to bad weather, sudden changes in operational conditions, etc. This form is simply a formalized version of how most OSCs tend to think in order to turn objectives into tactical field work.

Preparation. The Work Analysis Matrix, if used, is usually completed by the Operations Section Chief and Planning Section Chief prior to the Tactics Meeting.

Distribution. All completed original forms must be submitted to the Documentation Unit.

ltem # 1	Item Title Incident Name	Instructions Enter the name of the incident
2	Operational Period	Enter the time interval for which the form applies. Record the start and end date and time.
3	Operational Objectives	Enter the relevant Operational Objectives from the ICS 202, with numbers
4	Operational Strategies	Enter all strategies that could be used to meet the objective ("how")
5	Tactics/Work Assignments	Enter details, including as much as possible, who, what, where, and when, of work assignments to carry out Operational Strategies
6	Prepared By	Enter the name and position of the person preparing the form
7	Date/Time	Enter the date and time (24-hour format) the form was prepared

EXAMPLES				WORK ANALYSIS MATRIX ICS 234-OS	
1. Incident Name EXERCISE MP-99		2. Operation From: April		s To: April 11/18 0600hrs	
3. Operation's Objectives DESIRED OUTCOME	4. Optional Strategies HOW		5. Tactics/Work Assignments WHO, WHAT, WHERE, WHEN		
	Block roads to prevent public access to hazardous area		PMC road block crew #1 will block xx at xx using road block kit and PMC vehicle by 0600hrs.		
			TCPL crew to block xx using their trucks by 0630hrs.		
				ecurity company to provide 24/7 perimeter 1000hrs.	
			PMC personnel (crew ABC) to install temporary fencing around the perimeter by 1030 hrs.		
(Life Safety – Priority) Protect the Public: Establish perimeter control and secure incident area by 1030hrs.	Conduct evacuations within the EPZ		PMC Operations Section – Public Protection Branch Director to conduct phone notifications to impacted parties and provide instructions. Contact info to be obtained from eResponse. All records to be provided to Documentation Unit Leader.		
	Conduct vapour monitoring down wind of the incident site		Hire xyz mobile monitoring vendor to conduct vapour monitoring identified in the monitoring plan, starting adjacent to the EPZ and downwind to nearest residence by 0600hrs.		
(Life Safety – Priority)	Establish safe working conducting vapour mo		monitoring hydrocarb and stop w Must notif	onitoring group 1 to conduct vapour g at xx locations for benzene, total ons (LELs) and O2. Must document results vork and evacuate if thresholds are exceeded. Ty Safety Officer if thresholds exceeded. Half ators are required if benzene is above xx.	
Conduct a hazard risk analysis and develop safeguards to protect responders by 1030hrs.	Decontaminate all res	sponders		ablish a decontamination chamber and dry responders leaving hot zone. Dry decon attached.	

Air Monitoring Form

Date:	Time:	Wind Conditions		H ₂ S, SO ₂ , LEL	Location of	
		Direction	Speed	Reading:	Reading:	

Resident Notification Form

(Resident Notification / Evacuation / Shelter Contact Log)

Prepared by:		Ро	sition:	Date:
Name: (List all names at present location)	Map ID No.	Contact Time	Child or Answering Machine Only	Assistance or Transportation Required
Form Prepared by:				

Resident Registration Form

Prepared by:			Date:			
Name	Check In Time	Res. # on Map	# of People	Remarks	Check Out Time	Contact #
Form Prepared by:						

Roadblock Form

Prepared by	':		Checkpoint Date:	t #	
Vehicle Type & License Plate No.	Name of Driver	# Passengers	Time Entering EPZ	Time Exiting EPZ	Remarks
	 			<u> </u>	
				<u> </u>	
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			+		
Form Prepare	ed by:			<u> </u>	

Media Inquiry Form

Use this form to document all calls received from the media, and collect the listed information.

Date:	Time:	Received by:				
Reporter's Name:	Reporter's Name:					
Media Outlet/affiliation:						
Phone Number:		Email address:				
Deadline:						
Information requested:						
Information forwarded to	spokesperson (circle one) Yes No				
Notes:						



WCSS ICE SAFETY PLAN

Name:	
Date:	
Time:	

SITE ASSESSMENT

Location (GPS coordinates, Legal Land Description)					
Date (dd/mm/yy)	/	/	Time		
Current Temperature					
Temperature variations last 24 hours					
Predicted temperature variations for next 24 hours					
Windchill					
Site Access description (for responder vehicles / equipment)	Poor	Fair		Good	Excellent
Ice Faults	Yes	No			
Pressure Ridges	Yes	No			
Cracks	Yes (wet / dry)	No			

SAFETY CONTROLS

Muster Station	
First Aid Station	
Medical Facility	
Local Hospital	
STARS Registration #	
Warm-up Facility	

ICE CUTTING STRATEGY RESTRICTIONS

- Authorized personnel and equipment only on-ice Safety Chief/Crew Chiefs
- Stationary loads < 2 hours
- Personnel working within 2 meters of ice slot must be secured with manned or anchored safety lines
- Buddy system only on-ice personnel.
- Certification required operating boat, chainsaws other as required.
- Speed limits on ice identified and followed.
- No departures until site is secured,
- Other



SAFETY ORIENTATION

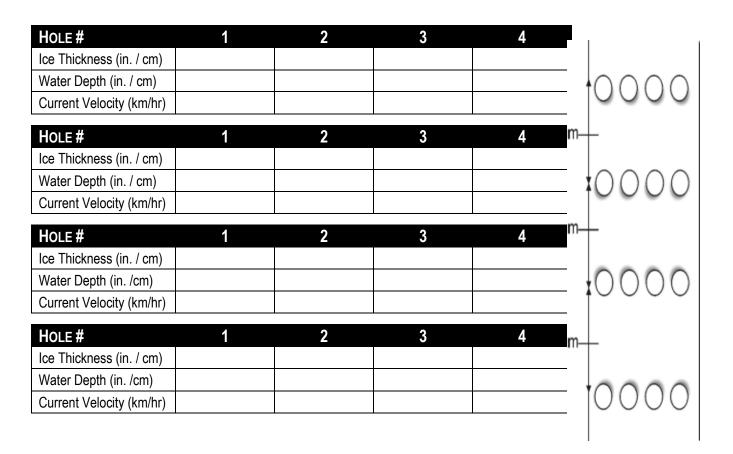
Instructors / Crew Chiefs to review with students / crews

- Hazard Assessment for Working on Ice
- Safety controls
- Emergency communications and actions
- Ice Cutting Strategy Restrictions

Verification Crew Briefings

Ice Evaluation Team	
Ice Slotting Team	
Ice Rescue	
Airboat	

ICE-COVERED WATERCOURSE ASSESSMENT



NOTE

Indicate the direction of flow at each augured hole with an arrow on the surface. Once direction of flow and main current has been identified, mark out a pattern for slot location or deflection boards.



SITE DRAWING

Ice Thickness (inches/cm) - Draw in bore hole location & indicate thickness in inches & cm

Ice Quality

-	 Indicate block location 		$P = A \times h^2$
-	Indicate thickne	ss of	A =
	0	white ice:	h ² =
	0	blue ice:	Effective Ice Thickness:
			Weight Bearing Capacity:
			Risk Tolerance:



REFERENCE – GENERAL DESCRIPTION OF WORK

Objectiv	ves:
	Ensure safety of all workers, observers and others that could be impacted both during and following
	the work.
	Identify the weight bearing capacity of the ice sheet in the working area.
	Determine suitable risk tolerance for work required.
	Identify a containment and recovery strategy.
	Slot the ice with appropriate equipment.
	Debrief and document follow up requirements and lessons learned.

Other:

Typical Sequence of Events:

Secure the site.

/ 100	Identify Equipment Deployment Site Location
	Hazard assessment and identification of safety controls and zones
	Develop Ice Safety Plan
	Crew orientations and specific hazard identification and safety controls
	Placement of the ice rescue team
	Ice Assessment
	Identify weight bearing capacity and equipment requirements
	Discuss risk tolerance & identify ice removal strategy
	Slot ice and begin recovery operations
	Install boom or dimensional lumber at the perimeter of the spills site to prevent lateral migration
	Debrief
	Identify follow up
	Site clean up
	Secure site and appoint someone to check on barricades

Other:

If this is a spill event; ensure work policies and procedures are in line with the incident action plan and other relevant site-specific spill response plans.



REFERENCE – PERSONAL PROTECTIVE EQUIPMENT

ON-ICE WORKERS – RESCUE TEAM / ICE EVALUATION AND SLOTTING TEAM

- Minimum PFD; floater jacket preferred.
- Initial Ice Assessment harness and rope tended and anchored.
- Further assessment work, ice slotting, containment and recovery-developed as per initial ice assessment. Minimum 1m distance from slots
- Ice awls
- Whistle
- Appropriate outer work wear
- Ice cleats if appropriate
- Chainsaw safety equipment
- Hearing Protection-(double protection required when operating equipment)
- Other _____

ON-ICE WORKERS – AIR BOATS

- Minimum personal flotation device (PFD)
- Hearing and eye protection (double protection required when operating equipment)
- Warm outer work wear
- Communications radio or pre-designated signals
- Ice Cleats
- Other ______

OBSERVERS

- Follow company policy linked to PPE requirements.
- Appropriate outer cold weather clothing.
- Stay off ice unless escorted

Other _____





SECTION 7: Reference Materials

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7.1 Concordance Table

The following tables show the relevant sections of external regulations and standards mapped to each Section within the ERP.

7.1.1 Canada Energy Regulator Onshore Pipeline Regulations (SOR/99-294)

NOTE: The below table follows the format established in the Emergency Procedures Manual (EPM) Review.

CER OPR	CSA Z662	Regulatory Requirement	ERP Section			
Document Control and Design						
34, 6.5(i)(o), 32(1.1)	3.1.2(g), 10.5.2.3	A distribution list of all persons holding copies of the plan should be maintained and kept current.	Distribution List Revision History			
		Provisions should be made for the review and updating of emergency plans and must identify the individual (or position) responsible. The plans should be reviewed and updated annually at a minimum and more often if major changes are required. A detailed record of changes/revisions must be kept.				
33	10.5.2.2	Applicable response organizations and other agencies must be consulted in the development of this EPM.	Section 8: Government Agencies and Local Authorities Local Section			
Definitions and	Levels of Eme	ergency				
32(1.1)		The EPM should include a definition and criteria for the determination of an emergency and triggers for various levels of response to emergency situations.	Section 1: Initial Response 1.3 Initial Response Checklist 1.3.4 Levels of Emergency			
OPR ss.32(1.1)		The EPM must describe how emergencies are reported to the company, how appropriate company personnel and first responders will be notified, how confirmation of an incident or release will occur, and the initial steps to be taken.	Section 1: Initial Response All			



CER OPR	CSA Z662	Regulatory Requirement	ERP Section
Organizationa	Structure and	Emergency Response Procedures	
6.4, 32(1.1), 6.5(q)	3.1.2(b)	The EPM must contain an organizational structure and Incident Management System (may be in the form of an organizational chart) illustrating the chain of command and functional responsibilities used to coordinate an emergency.	Section 0: Overview 0.4 Emergency Response Framework Section 2: Roles and Responsibilities 2.2 IMT Organization 2.4 CCMT Organization
6.4, 32(1.1), 6.5(q)	3.1.2(b)	The EPM must include site-specific information (including high risk / high consequence areas)	Section 9: Area Specific Information All
32(1.1), 48		The EPM must include spill control procedures and locations of spill control points	Section 4: Incident Specific Measures <i>4.4 Spill or Leak</i> Section 9: Area Specific Information <i>All</i> 8.1 Incident, Spill and Release Reporting Requirements
	10.5.2.1	The EPM must contain, or make reference to, shutdown procedures.	Section 1: Initial Response 1.3 Initial Response Checklist Section 2: Roles and Responsibilities Section 9: Area Specific Information 9.4 Alarms and Communications 9.6 Other Area Specific Information
	10.5.2.1	The EPM must identify procedures for down-grading emergency response levels.	Section 2: Roles and Responsibilities 2.1.2 Demobilization / Post Incident Procedures
	10.5.2.1	Public safety measures must be included or referenced in the EPM.	Section 3: Responder Safety and Public Protection <i>All</i>
Roles and Res	ponsibilities	1	
6.4(b), 32(1)	3.1.2(b)	The EPM must identify each responder's role, responsibilities and reporting relationship. Sufficient details should be provided to ensure that all critical activities are covered.	Section 2: Roles and Responsibilities All



CER OPR	CSA Z662	Regulatory Requirement	ERP Section
32(1), 33, 34	3.1.2(b)	Companies must consult with agencies during the development and updating of EPMs and response plans to facilitate clarity on roles, responsibilities and capabilities. These roles and responsibilities must be identified in the EPMs.	Section 8: Government Agencies and Local Authorities Local Section
6.4(c), 32(1.1)		Where a company relies on support from other organizations, (Ex. contracted response organizations); (for personnel or equipment) mutual aid or other agreements must be identified and should be listed in the EPM.	Section 4: Incident Specific Measures 4.1 Functional Support Plans Section 8: Government Agencies and Local Authorities Mutual Aid Section 9: Area Specific Information 9.8 External Support Organizations
6.5(t)		The EPM must include or make reference to the source location of response and contingency plans and other critical response information that may be utilized during an emergency.	Section 4: Incident Specific Measures <i>All</i>
Product Inform	nation		
32(1.1)		The EPM must include product information.	Section 1: Initial Response 1.3.2 Initial Actions and Assessment Section 7: Reference Materials 7.6 Characteristics of H ₂ S and SO ₂
Hazards and S	ite Safety		
6.5(c)(d)	3.1.2(f)	The EPM must address the hazards identified in the company hazards inventory.	Section 1: Initial Response 1.3.3 Initial Actions and Assessment Section 4: Incident Specific Measures All
			Section 7: Reference Materials 7.6 Characteristics of H ₂ S and SO ₂ Section 9: Area Specific Information
6.5(e)(f)		The company must have a documented risk evaluation process applicable to the EM program.	Technical Data Section 1: Initial Response 1.3 Initial Response Checklist



CER OPR	CSA 2662	Regulatory Requirement	ERP Section
6.5(f)		The EPM must have, or make reference to the controls in place to prevent, manage and mitigate the identified hazards and risks.	Section 1: Initial Response 1.3 Initial Response Checklist Section 4: Incident Specific Measures All Section 7: Reference Materials 7.6 Characteristics of H ₂ S and SO ₂ Section 9: Area Specific Information Alarms and Communications Equipment Lists and Location Other Area Specific Information
	10.2.6.1	Procedures must be in place for site control and security during an incident.	Plains Incident Management Handbook: <i>Roles and Responsibilities:</i> <i>Security Unit Leader, Roadblock</i> <i>Group Supervisor</i> Section 3: Responder Safety and Public Protection <i>3.2 Responder Safety</i> <i>3.4 Isolation of the EPZ</i> Section 9: Area Specific Information <i>Alarms and Communications</i> <i>Maps and Plot Plans</i>
	10.5.1.1(b)	Area maps must be included in the EPM.	Section 9: Area Specific Information Maps and Plot Plans
Communicati	on		
6.5(m), 32(1.1), 34		The EPM will include how the company will manage the internal and external communication and flow of information, including how the company will manage communications with First responders and other agencies on site.	Section 1: Initial Response 1.3.1 Notifications Section 5: Communications and Media All
	3.1.2(d)	The EPM will include a public relations or media plan.	Section 5: Communications and Media All
6.5(m)		The actions taken and communications equipment available will be sufficient to cover the operating area.	Section 5: Communications and Media <i>All</i> Section 9: Area Specific Information <i>Equipment Lists</i>



CER OPR	CSA Z662	Regulatory Requirement	ERP Section		
Emergency Re	Emergency Response Equipment				
47	10.2.7.1	Companies should possess or have access to sufficient emergency response equipment appropriate for the type of product being stored and the conditions in which it is being stored to respond to the worst-case emergency, as determined by its hazard assessments. The plan should also describe the resources that are available from other contractors and organizations and the contracts or written agreements for accessing these resources should be referenced.	Section 4: Incident Specific Measures 4.1 Functional Support Plans Section 8: Government Agencies and Local Authorities Mutual Aid Section 9: Area Specific Information Equipment Lists and Locations External Support Organizations		
46	3.1.2(c)(iii)	All applicable personnel will be trained in the appropriate use of the equipment.	Section 7: Reference Materials 7.2 Training Requirements Section 8: Government Agencies and Local Authorities Mutual Aid		
Internal and E	xternal Notific	ation and Reporting			
33, 34	10.4.3.1	The EPM will include current, verified, internal and external notification lists, including company employees, first responders, response organizations, contractors, mutual aid partners, Indigenous Peoples, and government officials.	Section 9: Site Specific Information <i>All</i>		
34		There will be confirmed methods for contacting persons and businesses in the EPZ.	Plains Incident Management Handbook: <i>Roles and Responsibilities: Public</i> <i>Protection Branch Director,</i> <i>Notification Group Supervisor</i> Section 3: Responder Safety and Public Protection– 3.6 Evacuation 3.7 Shelter-in-Place Section 9: Area Specific Information <i>Local Public Information</i>		
52		Procedures must be in place for reporting incidents to the appropriate regulatory bodies.	Section 1: Initial Response 1.3 Initial Response Checklist 1.3.1 Notifications Section 8: Government Agencies and Local Authorities Federal and Provincial Sections		



CER OPR	CSA Z662	Regulatory Requirement	ERP Section		
Documentatio	Documentation				
6.5(n), 56(g)(vii)	3.1.2(e), 10.4.3.2	The EPM will include procedures for record keeping during and following an emergency, including minimum record keeping requirements, a forms index and information that must be retained.	Section 1: Initial Response All Section 2: Roles and Responsibilities 2.1.2 Demobilization / Post Incident Procedures Plains Incident Management Handbook: Roles and Responsibilities: Common Responsibilities (Scribe), Transfer of Personnel, Documentation Unit Leader Section 6: Forms All		
Continuing Ed	ucation and Tr	aining			
6.5(j)(k), 35, 46	3.1.2(c), 10.5.2.4	Procedures must be established to provide for initial and refresher training for all personnel (internal and external) who will have a role in an emergency response. Exercises should be conducted to evaluate the company's response capabilities. The EPM should indicate the types of exercises and frequency with which they are conducted.	Section 7: Reference Materials 7.2 Training Requirements Training Records Exercise Reports		
35		Procedures must be established to provide for continuing education for all personnel who will have a response role or be impacted in the event of an incident. All applicable individuals, agencies, contractors, etc. will be provided training appropriate to their role regarding proper use of the EPM.	Section 7: Reference Materials 7.2 Training Requirements EM Training Matrix Training Records Exercise Reports Consultation Records		



7.1.2 AER Directive 071 (D071)

D071	Regulatory Requirement	ERP Section
2.1 (1)	The licensee must have a corporate-level ERP with preplanned procedures that will aid in effective response to an emergency.	Section 1: Initial Response <i>All</i> Section 2: Roles and Responsibilities <i>All</i> Section 4: Incident Specific Measures <i>All</i>
2.1 (2)	The licensee must include the following information in its ERP:	N/A
	Key Licensee Contacts	Section 9: Area Specific Information Internal Emergency Telephone Numbers
	24-hour licensee emergency contact telephone number	Section 9: Area Specific Information PMC 24-hour Emergency Lines
	A method of classifying incidents and response actions for specific incidents	Section 1: Initial Response 1.3.2 Initial Actions and Assessment 1.3.4 Level of Emergency
	 A communication plan that addresses Communication with response team, support services and government Communication with the public and media Downgrading and stand-down of emergency levels 	Section 0: Overview 0.4.2 <i>Response Organizations</i> Section 2: Roles and Responsibilities 2.1.2 Demobilization / Post Incident Procedures Plains Incident Management Handbook: <i>Roles and Responsibilities: Liaison</i> <i>Officer</i> Section 5: Communications and Media <i>All</i>
	Establishment of incident management systems	Section 0: Overview 0.4.1 Response Principles 0.4.7 Incident Command System 0.4.8 ICS Planning Cycle Section 2: Roles and Responsibilities All



D071	Regulatory Requirement	ERP Section
	Activation of a reception centre	Plains Incident Management Handbook: <i>Roles and Responsibilities:</i> <i>Reception Centre Group Supervisor</i> Section 4: Public Protection Measures <i>All</i> Section 9: Site Specific Information <i>Reception Centres</i>
2.1.1 (5)	The licensee must include all the information in Appendix 4 in its corporate-level ERP.	Section 1: Initial Response 1.3.4 Level of Emergency
2.1.1 (6)	The licensee must define appropriate actions, including public protection measures that would be taken for each level of emergency.	Section 1: Initial Response 1.3 Initial Response Checklist Section 3: Responder Safety and Public Protection All
2.1.2 (7)	The licensee must describe its procedures for contacting and maintaining communication with key licensee personnel, government agencies, support services, members of the public, and the media.	Section 0: Overview 0.4.2 <i>Response Organizations</i> Plains Incident Management Handbook: <i>Roles and Responsibilities: Liaison</i> <i>Officer, Public Information Officer</i> Section 5: Communications and Media <i>All</i>
	The licensee must clearly define the responsibility to contact the ERCB and other responders in the event of an emergency.	Section 1: Initial Response 1.3.1 Notifications



D071	Regulatory Requirement	ERP Section
	The licensee must describe procedures that will be implemented during an incident to contact and maintain communication with directly impacted members of the public in order to keep them informed of the situation and the actions being taken.	Section 0: Overview 0.4.2 Response Organizations Section 2: Roles and Responsibilities 2.8 Liaison Manager 2.10 Public Information Manager Plains Incident Management Handbook: Roles and Responsibilities: Liaison Officer. Public Information Officer Section 3: Responder Safety and Public Protection All Section 5: Communications and Media All
	The licensee must describe procedures that will be used to inform and update the media and procedures in getting factual messages out to the public at large in an expeditious manner.	Section 5: Communications and Media <i>All</i>
	The licensee must describe procedures to downgrade and stand-down levels of emergency.	Section 2: Roles and Responsibilities 2.1.2 Demobilization / Post Incident Procedures Plains Incident Management Handbook: Roles and Responsibilities: Demobilization Unit Leader
2.1.3 (8)	The licensee must identify the roles and responsibilities of personnel required to effectively respond to an emergency.	Section 2: Roles and Responsibilities <i>All</i>
2.1.4 (9)	The licensee must describe how it will manage and coordinate a response to an emergency.	Section 1: Initial Response <i>All</i> Section 2: Roles and Responsibilities <i>All</i>
	The licensee must address the roles and responsibilities of personnel at its on-site command post, the company regional emergency operations centre (REOC), and the corporate EOC.	Section 0: Overview 0.4.2 Response Organizations
	The licensee is expected to clearly outline the communication protocols and procedures to be used between these command centres.	Section 0: Overview 0.4.2 Response Organizations Section 2: Roles and Responsibilities All



D071	Regulatory Requirement	ERP Section
2.1.5 (10)	The licensee must set out the procedures for activating a reception centre located at a safe distance from the release source, and meeting and registering evacuees at the reception centre.	Plains Incident Management Handbook: <i>Roles and Responsibilities:</i> <i>Reception Centre Group Supervisor</i> Section 3: Responder Safety and Public Protection <i>All</i> Section 9: Site Specific Information <i>Reception Centres</i>



7.1.3 Environmental Emergency Regulations (SOR/2019-51)

The following tables show the relevant sections of the Government of *Canada Environmental Emergency Regulations, 2019,* mapped to each Section within the ERP and Site Specific Environmental Emergency (E2) Plan.

These regulations aim to help reduce the frequency and severity of accidental releases of hazardous substances into the environment. Made under the *Canadian Environmental Protection Act, 1999*, they improve industry's capacity to deal with environmental emergencies that may occur at fixed facilities across Canada.

These regulations require that any person who owns, has the charge, management or control of a regulated substance at or above certain quantities notify Environment and Climate Change Canada (ECCC). For higher-risk facilities, an environmental emergency plan must also be prepared, brought into effect and exercised.

The *Environmental Emergency Regulations, 2019* (the final regulations) were published in the Canada Gazette on March 6, 2019.

SOR/2019-51	Regulatory Requirement	ERP Section
Maximum Expe	ected Quantity	-
1(2)	For the purposes of these Regulations, the maximum expected quantity of a substance is to be determined in accordance with subsections 3(1) to (4) for the one-year period beginning on the day on which the applicable situation referred to in subsection 3(1) or (5) occurs or the one-year period beginning on the day on which a notice is submitted under section 13.	PMC Technical Asset Review/EPZ Assessment Section 9: Site Specific Information <i>Technical Data - Facilities</i> Site Specific (E2) Plan <i>ECCC Regulated Substances</i>
List of Substan	ces	
2(1) (a) (b)	For the purposes of the definition substance in section 193 of the Act, the list of substances consists of The substances having a CAS registry number set out in column 1 of Part 1 of Schedule 1 and that, if present in a mixture, are in a concentration that is greater than or equal to the concentration set out in column 3 of that Part; and	Technical Asset Review/EPZ Assessment Site Specific (E2) Plan ECCC Regulated Substances
	The solutions having a CAS registry number set out in column 1 of Part 2 of Schedule 1, if the concentration of the solute in the solution is greater than or equal to the concentration set out in column 3 of that Part and, in the case of a solution that is present in a mixture, if the concentration of the solute in the mixture is greater than or equal to the concentration set out in column 3 of that Part.	



SOR/2019-51	Regulatory Requirement	ERP Section
Exclusions	· · · · · · · · · · · · · · · · · · ·	-
2(a) (i) (ii) (b) (c) (d) (e) (f) (g) (h) (i)	The following substances are excluded from the list referred to in subsection (1):	Technical Asset Review/EPZ Assessment
	a substance that is identified in column 5 of Part 1 of Schedule 1 as combustible or likely to explode and	Site Specific (E2) Plan ECCC Regulated Substances
	is in a mixture that has a flashpoint greater than 23 °C and a boiling point greater than 35 °C, or	
	is a component of natural gas in its gaseous form;	
	a substance that is identified in column 5 of Part 1 or 2 of Schedule 1 as an inhalation hazard and is in a mixture, in gaseous or liquid form, that has a total vapour pressure of less than 1.33 kPa;	
	a substance that is used to fuel a heating appliance or to generate power at the facility where it is located and is present in a quantity that is less than the quantity set out in column 4 of Part 1 of Schedule 1 for that substance;	
	a substance that is regulated under the Transportation of Dangerous Goods Act, 1992 or the Canada Shipping Act, 2001;	
	a substance that is in a pipeline that is regulated under the Canada Energy Regulator Onshore Pipeline Regulations or in a processing plant that is regulated under the CER Processing Plant Regulations;	
	a substance that is in a pipeline located entirely within a province and that is on a property where there are no fixed onshore installations other than pipelines, compressor stations or pump stations;	
	a substance that is in a fuel tank that is connected to and supplies the engine of a conveyance that is used for transportation;	
	the substance set out in item 57 of Part 1 of Schedule 1, if it is in a solid form;	
	the substance set out in item 143 of Part 1 of Schedule 1, if it is in the form of solid particles that measure more than 10 μm in diameter; and	
	the substance set out in item 167 of Part 1 of Schedule 1, if it is in a form other than white phosphorous.	



SOR/2019-51	Regulatory Requirement	ERP Section
Notice Regardi	ng Substances Located at a Facility	
3(1) (a) (b)	A responsible person must, within 90 days after the day on which either of the following situations occurs, submit to the Minister a notice containing the information referred to in Schedule 2 for each facility at which a substance is located:	Schedule 2 – Submitted to Environment Canada Site Specific (E2) Plan ECCC Regulated Substances
	the total quantity of the substance, whether it is in a container system or not, is equal to or greater than the quantity set out in column 4 of Part 1 or 2 of Schedule 1 for that substance; or	
	a quantity of the substance is placed in a container system that has a maximum capacity that is equal to or greater than the quantity set out in column 4 of Part 1 or 2 of Schedule 1 for that substance.	
Excluded quan	tities	-
3(2) (a) (b) (c) (d) (e)	In determining the quantity of a substance for the purposes of subsection (1), the following quantities are excluded:	Technical Asset Review/EPZ Assessment
	quantities of the substance that are located at the facility for a period of 72 hours or less, unless the substance is loaded or unloaded at the facility, if, during that period, the person keeps evidence of the date and time at which the quantities of the substance arrived at the facility;	
	quantities of the substance that are in a container system that has a maximum capacity of 0.03 t or less;	
	quantities of the substance that are found in slag, waste rock, tailings, solid residues, ores and ore concentrates;	
	quantities of the substance set out in item 17 of Part 1 of Schedule 1 that are in a container system that has a maximum capacity of less than 10 t and is located at least 360 m from all points along the boundary of the facility; and	
	quantities of a substance set out in item 163 of Part 1 of Schedule 1 or item 5 or 9 of Part 2 of that Schedule that are located at a farming operation for on-site use as an agricultural nutrient.	



SOR/2019-51	Regulatory Requirement	ERP Section
Determination	of Quantity — Part 1 of Schedule 1	
3(3)	For the purposes of subsection (1), the quantity of a substance set out in Part 1 of Schedule 1 that is in a mixture is to be determined by multiplying the quantity of the mixture, expressed in tonnes, by the concentration, expressed in percentage (mass/mass), of the substance in the mixture.	Schedule 1 Technical Asset Review/EPZ Assessment
Determination	of Quantity — Part 2 of Schedule 1	
3(4) (a) (b)	For the purposes of subsection (1), the quantity of a substance that is a solution set out in Part 2 of Schedule 1 is to be determined.	Schedule 1 Technical Asset Review/EPZ Assessment
	in the case of a solution that is not in a mixture, by multiplying the quantity of the solution, expressed in tonnes, by the concentration expressed in percentage (mass/mass) of the solute in the solution; and	
	in the case of a solution that is in a mixture, if the concentration of the solute in the solution is available, by multiplying the quantity of the mixture, expressed in tonnes, by the concentration expressed in percentage (mass/mass) of the solute in the solution and the concentration expressed in percentage (mass/mass) of the solution in the mixture, and if the concentration of the solute in the solution is not available, by multiplying the quantity of the mixture, expressed in tonnes, by the percentage (mass/mass) of the solution in the mixture.	
Notice of Chan	ge	
3(5) (a) (b) (c)	A responsible person must, within 60 days after the day on which any of the following situations occurs, submit an updated notice to the Minister that contains the information referred to in Schedule 2:	Schedule 2 – Submitted to Environment and Climate Change Canada
	the information that was reported under section 1 or 2 of Schedule 2 has changed;	
	the maximum expected quantity that was most recently reported under paragraph 3(d) of Schedule 2 in respect of a substance has increased by 10% or more; or	
	the maximum capacity that was most recently reported under paragraph 3(f) of Schedule 2 in respect of a container system, in which a quantity of a substance is contained, has increased by 10% or more.	



SOR/2019-51	Regulatory Requirement	ERP Section			
Preparation	Preparation				
4(1) (a) (b)	A responsible person must, for each facility at which a substance is located, prepare an environmental emergency plan with respect to the substance under the following circumstances:	Schedule 2 – Submitted to Environment Canada Site Specific (E2) Plan ECCC Regulated Substances			
	if some or all of the substance is not in a container system, a responsible person has reported a maximum expected quantity under paragraph 3(d) of Schedule 2 that is equal to or greater than the quantity set out in column 4 of Part 1 of Schedule 1 for that substance; or				
	if the substance is in a container system, a responsible person has reported				
	under paragraph 3(d) of Schedule 2, a maximum expected quantity that is equal to or greater than the quantity set out in column 4 of Part 1 or 2 of Schedule 1 for that substance, and				
	under paragraph 3(f) of Schedule 2, a maximum capacity that is equal to or greater than the quantity set out in column 4 of Part 1 or 2 of Schedule 1 for that substance.				
Required Cont	ent				
4(2) (a) (b) (c) (d) (e) (f) (g)	The environmental emergency plan must include the following:	Section 9: Site Specific Information Technical Data - Facilities			
(h) (i) (j) (k) (l) (m) (n) (o)	a description of the properties and characteristics of the substance and the maximum expected quantity of the substance at the facility;	Site Specific (E2) Plan Location Directions and Access ECCC Regulated Substances Characteristics of Facility and Surrounding Area			
	a description of the commercial, manufacturing, processing or other activity involving the substance that takes place at the facility;				
	a description of the facility and of the area surrounding the facility that may be affected by an environmental emergency referred to in paragraph (d), including any hospitals, schools, residential, commercial or industrial buildings and any highways, public transit infrastructure, parks, forests, wildlife habitats, water sources or water bodies;				



SOR/2019-51	Regulatory Requirement	ERP Section
	an identification of any environmental emergency that could reasonably be expected to occur at the facility and that would likely cause harm to the environment or constitute a danger to human life or health, including the environmental emergency referred to in paragraph (e) and, if applicable, the environmental emergency that is more likely to occur than the environmental emergency referred to in paragraph (e) and that would have the longest impact distance outside the boundary of the facility;	Section 9: Site Specific Information Technical Data - Facilities Site Specific (E2) Plan Substance Specific Properties & Emergency Management Roles & Responsibilities Training
	an identification of the harm to the environment or danger to human life or health that would likely result from an environmental emergency involving the release of the maximum quantity of the substance that could be contained in the container system that has the largest maximum capacity, if a quantity of the substance is in a container system, and the maximum expected quantity of the substance that will not be in a container system, if a quantity of the substance is not in a container system;	
	an identification of the harm to the environment or danger to human life or health that would likely result from the environmental emergency identified under paragraph (d), if any, that is more likely to occur than the environmental emergency referred to in paragraph (e) and would have the longest impact distance outside the boundary of the facility;	
	a description of the measures to be taken to prevent and prepare for the environmental emergencies identified under paragraph (d) and the measures that will be taken to respond to and recover from such emergencies if they were to occur;	
	a list of the position titles of the persons who will make decisions and take a leadership role in the event of an environmental emergency and a description of their roles and responsibilities;	
	a list of the environmental emergency training that has been or will be provided to prepare personnel at the facility who will respond in the event that an environmental emergency identified under paragraph (d) occurs;	





SOR/2019-51	Regulatory Requirement	ERP Section
	a list of the emergency response equipment that is necessary for the measures described in paragraph (g) and the equipment's location;	Site Specific (E2) Plan Public Communication Local Authority Communication
	a description of the measures that will be taken by a responsible person or by a responsible person and local authorities, acting jointly, to communicate with the members of the public who may be adversely affected by the environmental emergency referred to in paragraph (f) to inform them, before the environmental emergency occurs, of the possibility that the environmental emergency could	Facility Map & Plot Plan Facility Site Section
	occur, the potential effects of the environmental emergency on the environment and on human life or health, taking into account the factors referred to in paragraphs (a) to (c), and	
	the measures that will be taken by the responsible person to protect the environment and human life or health, and the means by which the responsible person will communicate with them, in the event that the environmental emergency occurs;	
	a description of the measures that will be taken by a responsible person or by a responsible person and local authorities, acting jointly, to, in the event that an environmental emergency involving the release of a substance occurs, communicate with the members of the public who may be adversely affected to provide them, during and after its occurrence, with information and guidance concerning the actions that could be taken by them to reduce the potential harm to the environment and danger to human life or health, including an explanation of how those actions may help to reduce the harm or danger;	
	the position title of the person who will communicate with the members of the public referred to in paragraphs (k) and (I);	
	a description of the consultations that a responsible person had with local authorities, if any, with respect to the measures referred to in paragraph (k) and (l); and	
	a plan of the facility showing the location of any substances in relation to the physical features of the facility.	





SOR/2019-51	Regulatory Requirement	ERP Section	
Existing Plan	I		
4(3)	For the purposes of subsection (1), a responsible person may use an environmental emergency plan that has been prepared on a voluntary basis, or for another government or under another Act of Parliament, if that plan meets the requirements of subsection (2) or is amended so that it meets those requirements.	Site Specific (E2) Plan	
Adequate mea	sures		
4(4)	The measures included in the environmental emergency plan must be adequate to address the objectives of preventing, preparing for, responding to and recovering from the environmental emergencies identified under paragraph (2)(d).	Site Specific (E2) Plan Substance Specific Properties & Emergency Management	
Notice – prepa	ration of plan		
5	Within six months after the day on which an environmental emergency plan is required to be prepared under subsection 4(1), a responsible person must inform the Minister that they have prepared the plan or are using a previously prepared plan in accordance with subsection 4(3) by submitting a notice that contains the information referred to in Schedule 3.	Schedule 3 - Submitted to Environment and Climate Change Canada	
Bringing into e	ffect		
6	Within 12 months after the day on which an environmental emergency plan is required to be prepared under subsection 4(1), a responsible person must bring the plan into effect and submit a notice to the Minister that contains the information referred to in Schedule 4.	Schedule 4 - Submitted to Environment and Climate Change Canada	
Simulation Exe	rcise		
7(1) (a) (b)	A responsible person must conduct simulation exercises in relation to each environmental emergency plan that is prepared under subsection 4(1) as follows: each year, beginning on the day on which the plan is brought into effect, a simulation exercise in respect of one substance from each of the hazard categories referred to in column 5 of Parts 1 and 2 of Schedule 1, using an environmental emergency identified under paragraph 4(2)(d) as the emergency being simulated; and every five years, beginning on the day on which the plan is brought into effect, a full-scale simulation exercise in respect of any one substance, using an environmental emergency referred to in paragraph 4(2)(e) or (f) as the emergency being simulated.	Section 7: Reference Materials 7.2 Training <i>Requirements</i> <i>EM Training Matrix</i>	



SOR/2019-51	Regulatory Requirement	ERP Section	
Cycle for simul	ation exercises		
7(2)	For the purposes of paragraph (1)(a), a simulation exercise conducted in respect of a substance belonging to a given hazard category must simulate a different environmental emergency for each subsequent simulation exercise until all of the environmental emergencies identified under paragraph 4(2) (d) for each of the substances belonging to that hazard category have been simulated, after which the environmental emergencies must be cycled through again.	Section 7: Reference Materials 7.2 Training <i>Requirements</i> <i>EM Training Matrix</i>	
7(3)	Paragraph (1)(a) does not apply in respect of a year during which a full-scale simulation exercise is conducted under paragraph (1)(b).	Section 7: Reference Materials 7.2 Training Requirements	
Record of simu	lation exercise		
8	After each simulation exercise is conducted in relation to the environmental emergency plan, a responsible person must prepare a record that contains the date, a summary and the results of the simulation exercise and any modifications to be made to the plan as a result of the simulation exercise	Section 7: Reference Materials 7.2 Training Requirements Training Records Exercise Reports	
Notice — simu	lation exercises conducted	I	
9	A responsible person must, within five years after the day on which the environmental emergency plan is brought into effect under section 6, submit a notice to the Minister containing the information referred to in Schedule 5 concerning the simulation exercises conducted in relation to an environmental emergency plan.	Schedule 5 - Submitted to Environment and Climate Change Canada	
Updates to the	plan	l	
10	A responsible person must review and, if necessary, update the environmental emergency plan at least once a year to ensure that it continues to meet the requirements of subsection 4(2) and keep a record of the date of the review.	Revision History	
Access		·	
11	A responsible person must make a copy of the environmental emergency plan readily available at the facility referred to in subsection 4(1) and at any other place where a copy of the plan needs to be kept for consultation by the individuals who are to carry it out.	Distribution List	



SOR/2019-51	Regulatory Requirement	ERP Section
Measures unde	er paragraph 201(1)(b) 12	1
12	The emergency measures that are to be taken under paragraph 201(1)(b) of the Act include the measures to respond to and recover from an environmental emergency that are set out in the environmental emergency plan. of Act	Section 1: Initial Response <i>All</i> Section 4: Incident Specific Measures <i>All</i> Section 7: Reference Materials 7.7 Canadian Environmental Protection Act (E2) Requirements
Periodic Submi Notice regardir	ssion of Notices ng a substance	1
13	If a notice has been submitted under subsection 3(1), a responsible person must submit a new notice to the Minister that contains the information referred to in Schedule 2 no later than five years after the day on which the most recent notice containing that information was submitted.	Schedule 2 – Submitted to Environment and Climate Change Canada
Notice of simu	lation exercise	
14	If a notice has been submitted under section 9, a responsible person must submit a new notice to the Minister that contains the information referred to in Schedule 5 no later than five years after the day on which the most recent notice containing that information was submitted.	Schedule 5 - Submitted to Environment and Climate Change Canada
Change in Circu Change in quar	umstances ntity or capacity	
15(1) (a) (b)	If a notice has been submitted under subsection 3(1) in respect of a substance located at a facility, a responsible person must submit a notice to the Minister if the total quantity of the substance located at the facility is, for a period of one year, less than the quantity set out in column 4 of Part 1 or 2 of Schedule 1 for that substance; or a quantity of the substance is, for a period of one year, no longer found in a container system at the facility that has a maximum capacity that is equal to or greater than the quantity set out in column 4 of Part 1 or 2 of Schedule 1 for that substance	Schedule 1 Schedule 2 – Submitted to Environment and Climate Change Canada



SOR/2019-51	Regulatory Requirement	ERP Section	
Time limit for s	ubmission		
15(2) (b)	The notice must contain the information referred to in Schedule 6 and be submitted no later than 60 days after the end of the period referred to in paragraph (1)(a) or (b), as the case may be.	no later than 60 days after Environment and Climate Change	
Cessation of or	perations	1	
16	A responsible person who intends to cease operations for a period of one year or more at a facility where a substance is located, for any purpose other than maintenance, must submit a notice containing the information referred to in Schedule 7 to the Minister at least 30 days before the day on which operations are to cease, or as soon as feasible in the case of extraordinary circumstances such as fire, major accident, vandalism, natural disaster or act of terrorism.	Schedule 7 - Submitted to Environment and Climate Change Canada	
Transfer of ow	nership of facility	-	
17	If there is a transfer of the ownership of a facility where a substance is located, a responsible person must, if a notice has been submitted under subsection 3(1) in respect of the substance, submit a notice containing the information referred to in Schedule 7 to the Minister on or before the date of the transfer.	Schedule 7 - Submitted to Environment and Climate Change Canada	
Reporting of En Paragraph 201	nvironmental Emergencies (1)(a) of Act		
18(1) (a) (b) (c)	For the purposes of these Regulations, paragraph 201(1)(a) of the Act applies only in relation to an environmental emergency that has or may have an immediate or long-term harmful	Section 7: Reference Materials 7.7 Canadian Environmental Protection Act (E2) Requirements Section 8: Government Agencies	
	effect on the environment;	and Local Authorities	
	constitutes or may constitute a danger to the environment on which human life depends; or	8.1 Incident, Spill and Release Reporting Requirements	
	constitutes or may constitute a danger in Canada to human life or health.	Federal Reporting Requirements	



SOR/2019-51	Regulatory Requirement	ERP Section
Written Report	: — designated person	
18(2)	(2) The person who is designated to be provided with a written report respecting the occurrence of an environmental emergency involving a substance that is on the list referred to in section 2 is the Regional Director, Environmental Enforcement Directorate, Enforcement Branch, Department of the Environment, in the region where the environmental emergency occurs. Section 7: Reporting Reference of the environment of the Environment, in the region the environment emergency occurs.	
Written Report	- required contents	
18(3)	The written report must include the information referred to in Schedule 8.	Schedule 8 - Submitted to Environment and Climate Change Canada
Submission Rec Certification	quirements	
19(1)	Any information that is required to be submitted under these Regulations, and any written report provided under paragraph 201(1)(a) of the Act, must be accompanied by a certification, signed and dated by the person who is required to submit the information or provide the report, or by their authorized representative, stating that the information or report is accurate and complete.	Signed Declaration
Additional info	rmation	
19(2)	If the certification is provided by an authorized representative, the authorized representative must provide their name, telephone number and email address.	Signed Declaration
Electronic subr	nission under these Regulations	
20(1)	Any information that is required to be submitted to the Minister under these Regulations must be submitted electronically in the form and format specified by the Minister and bear the electronic signature of the person who is required to submit the information or of their authorized representative.	N/A



SOR/2019-51	Regulatory Requirement	ERP Section	
Electronic subr	Electronic submission — written report of environmental emergency		
20(2)	Any written report provided under paragraph 201(1)(a) of the Act to an enforcement officer or the person referred to in subsection 18(2) must be submitted electronically in the form and format specified by the Minister and bear the electronic signature of the person who is required to submit the report or of their authorized representative.	N/A	
Submission on	paper		
20(3)	If the Minister has not specified a form and format or if it is not feasible to submit the information or report electronically because of circumstances beyond the person's control, the information or report, as the case may be, must be submitted on paper in the form and format specified by the Minister, if any, and be signed by the person or their authorized representative.	N/A	
Record Keeping	g		
21(1)	Any records prepared in accordance with sections 8 and 10 must be kept at the facility referred to in subsection 4(1).	N/A	
Seven years			
21(2)	The records referred to in subsection (1) must be kept for a period of not less than seven years beginning on the day on which they are prepared.	N/A	
Transitional Pro Application of s			
22	For the purposes of section 3, if either of the situations described in paragraph 3(1)(a) or (b) occurs in respect of a facility before the day on which these Regulations come into force, a responsible person must submit the notice referred to in subsection 3(1) to the Minister within 90 days after the day on which these Regulations come into force.	Schedule 2 – Submitted to Environment and Climate Change Canada	



7.2 Training Requirements

PMC is committed to ensure that personnel involved in an emergency response fully understand their roles and the roles of others with whom they may interact during an incident. To meet this commitment and to ensure personnel respond effectively, training activities will include:

Exercise Frequency

- Table Top or Communication Exercises must be performed annually for all federal and/or provincial regulated ERPs.
- Full Scale Major Exercises must be performed once every 3 years for all federal and/or provincial regulated ERPs.
- Table Top Exercise must be performed annually for all E2 registered sites, including a more extensive simulation exercise every five years

Table Top Exercise

- Designed to explore emergency situation, free of time constraints, with an emphasis on learning, discussion and group problem solving
- Review initial response processes/standards, communication protocols and managing a response effort from the Incident Command Post.
- The exercise complexity, scope and duration will vary based on the pre-defined exercise objectives and may include EOC and/or government agency participation.

Full Scale Exercise

- Designed to fully activate the Emergency Response Plan and prompt the involvement of:
 - Applicable government agencies with simulation of non-participating agencies.
 - Applicable Local and Health Authorities, with simulation of non-participating authorities.
 - Public, stakeholders and media may be simulated.
 - Corporate Emergency Operations Centre and resources.
- The exercise complexity, scope and duration will vary based on the pre-defined exercise objectives and external participation.

Specialized Emergency Response Training

- Emergency response training can be facilitated as a standalone session or as training module(s in conjunction with table top and full scale exercises. These training sessions include, but are not limited to:
 - Incident Command System (ICS) Training Standalone certified ICS, ICS role specific and/or PMC designed ICS courses.
 - E.g. ICS 200/300, ICS Management by Objectives, ICS Planning Section, etc.
 - **Specialty Emergency Response Tactical Training** Exercises and specialty training sessions that involve the deployment of response equipment.
 - E.g. Spill Response On-water, Spill Response On-ice, Boat Handling, etc.
 - Functional Group Training Training sessions facilitated for a specific PMC Department(s) or Functional Group.
 - E.g. Stakeholder Notification, Trucking, Logistics, Health & Safety, etc.



- **Specialty Training Modules** Training modules generally facilitated in conjunction with exercises to enhance responder knowledge and competency.
 - E.g. Public Protection, Front Line Media, ICS Refresher, ERP Orientation, etc.

First Responder Continuing Education Sessions

- Designed to provide continual education for first responders, local authorities and government agencies regarding energy sector emergency response. Continuing education messages are supplied to applicable stakeholders on a 2 year alternating basis via:
 - First responder information handouts, public information handouts and area maps.
 - Face to face presentations, site tours and local authority consultations.
 - Phone updates when requested and on an as needed basis.
- All stakeholders identified within the program are educated on the following:
 - Emergency Response Plans/Emergency Procedures Manuals.
 - o Emergency response procedures and incident specific measures
 - Roles and responsibilities of various responders.



7.3 ERP Amendment Request Form

Please use this form to submit any updates, changes or corrections that you wish to have made to the Emergency Response Plan to:

Email:

Submitted By:

Name (please print)	
Position	
Date	

Please outline your changes. If possible, include the section, page number(s), statement and/or graphic that should be changed.

Change / Comment	Section	Page Number

NOTE: All suggested changes will be reviewed. If an identified change is deemed critical, the change will be made to the applicable pages and distributed to all plan holders within 90 days of being notified.



7.4 Acronyms

Emergency Management

AOBD	Air Operations Branch Director	ISB	In-situ Burn
BD	Branch Director	ISD	Incident Status Display
ССМТ	Corporate Crisis Management Team	JIC	Joint Information Centre
COML	Communications Unit Leader	LO	Liaison Officer
CST	Corporate Strike Team	LSC	Logistics Section Chief
DMOB	Demobilization Unit Leader	MUL	Medical Unit Leader
DOCL	Documentation Unit Leader	NIMS	National Incident Management System
EOC	Emergency Operations Centre	OSC	Operations Section Chief
EMS	Emergency Medical Services	OSRO	Oil Spill Response Organization
EMT	Emergency Medical Technician	ΡΙΟ	Public Information Officer
EUL	Environmental Unit Leader	PROVIC	Provincial Incident Commander
FedIC	Federal Incident Commander	PSC	Planning Section Chief
FNIC	First Nation Incident Commander	RAR	Resources at Risk
FSC	Finance/Administration Section Chief	RARTHSP	Resources at Risk Technical Specialist
GIS	Geographic Information System	RO	Response Organization
GSUL	Ground Support Unit Leader	RP	Responsible Party
HAZMAT	Hazardous Materials	RPIC	Responsible Party Incident Commander
HAZSUB	Hazardous Substances	RUL	Resources Unit Leader
H/C	Historic/Cultural	SAR	Search and Rescue
ΙΑΡ	Incident Action Plan	SCAT	Shoreline Cleanup Assessment Team
IC	Incident Commander	SITL	Situation Unit Leader
ICP	Incident Command Post	SO	Safety Officer
ICS	Incident Command System	SSHP	Site Safety and Health Plan
ІМН	Incident Management Handbook	SITREP	Situation Report
IRG	Incident Response Guidebook	TFR	Temporary Flight Restrictions
IMT	Incident Management Team	THSP	Technical Specialist
INT	Intelligence Officer	UC	Unified Command



Security

ACTCMP	Alberta Counter-Terrorism Crisis Management Plan
AERCB	Alberta Energy Resources Conservation Board
BC OGC	British Colombia Oil & Gas Commission
САРР	Canadian Association of Petroleum Producers
CCV	Closed Circuit Video Surveillance
CER	Canada Energy Regulator
CGA	Canadian Gas Association
CPTED	Crime Prevention Through Environmental Design
CSIS	Canadian Security and Intelligence Service
C-TPAT	Customs-Trade Partnership Against Terrorism
FAST	Free and Secure Trade
IDS	Intrusion Detection System
NRCAN	Natural Resources Canada
PSC	Public Safety Canada
PSS	Physical Security Standard
RCMP	Royal Canadian Mounted Police
SMP	Security Management Program
SOP	Standard Operating Procedures
SRA	Security Risk Assessment
STRP	Security Threat Response Plan
STVRA	Security Threat Vulnerability Risk Assessment



7.5 Glossary

Agency Representative - Individual assigned to an incident from an assisting or cooperating agency that has been delegated full authority to make decisions on all matters affecting his/her agency's participation at the incident. Agency Representatives report to the Liaison Officer upon arrival at the ICP.

Air Operations Branch Director - The person primarily responsible for preparing and implementing the air operations portion of the Incident Action Plan. Also responsible for providing logistical support to helicopters assigned to the incident.

Alert - An incident that can be handled on site by the licensee through normal operating procedures and is deemed to be a very low risk to members of the public.

Allocated Resources - Resources (personnel and equipment) dispatched to an incident.

Assigned Resources - Resources checked-in and assigned work tasks on an incident.

Assignments - Tasks given to resources to perform within a given operational period, based upon tactical objectives in the Incident Action Plan.

Assistant - Title for subordinates of the Command Staff positions. The title indicates a level of technical capability, qualifications, and responsibility subordinate to the primary positions. Assistants may also be used to supervise unit activities at camps.

Assistants could attend the same meeting to assist with scribing. Assistants do not have the authority to make decisions on behalf of their superior.

Assisting Agency - An agency which directly contributes tactical or service resources in support of an incident response.

Available Resources - Incident-based resources which are immediately available for an assignment.

Base - The location at which some logistics functions are coordinated and administered. (Incident name or other designator will be added to the term "Base"). The Incident Command Post may be collocated with the base. There is only one base per incident.

Branch - The organizational level having functional/geographic responsibility for major incident operations. The Branch level is organizationally between Section and Division/Group in the Operations Section, and between Section and Units in the Logistics Section.

Cache - A pre-determined complement of tools, equipment, and/or supplies stored in a designated location, and available for incident use.

Camp - A geographical site, within the general incident area, separate from the base, equipped and staffed to provide sleeping areas, food, water, and sanitary services to out-of-service incident personnel.

Ceiling Recommended Exposure Limit – Recommend Exposure Limit - The concentration that should not be exceeded during any part of the working exposure. An employee's exposure to a hazardous substance shall at no time exceed the ceiling value.

Check-In - The process whereby resources first report to an incident response. Check-in locations include: Incident Command Post (Resources Unit), Incident Base, Camps, Staging Areas, Helibases, and Division/Group Supervisors (for direct line assignments).

Chief - The ICS title of individuals responsible for command of functional sections: Operations, Planning, Logistics, and Finance/Administration.



Clear Text - The use of plain English in radio communications transmissions. No Ten Codes nor agency specific codes are used when using Clear Text.

Closure Order - Also known as a Fire Hazard Order. A closure order is issued to close a specific area to unauthorized personnel. The closure order area is that area within the boundaries described in an order issued by the ERCB under Section 97(1) of the Oil and Gas Conservation Act.

Command - The act of directing, ordering, and/or controlling resources by virtue of explicit legal, agency, or delegated authority. May also refer to the Incident Commander/Unified Command.

Command Post - See Incident Command Post.

Command Staff - The Command Staff consists of the Information Officer, Safety Officer, Liaison Officer, and Legal Officer, who report directly to the Incident Commander. They may have an assistant or assistants, as needed.

Communications Unit - Functional unit within the Logistics Sections responsible for Incident communications equipment and facilities, supervising the Incident Communications Centre, distributing communications equipment to incident personnel, and the maintenance and repair of communications equipment.

Control Point – A location-specific response tactic used to contain or recover oil. A river, stream or creek may include many control points along its path where response resources (boom, skimmers, etc.) may be deployed. Control Points are described in the Emergency Response Plans.

Cooperating Agency - An agency supplying assistance other than direct tactical, support, or service functions or resources to the incident control effort (Ex. Red Cross, telephone company, etc.).

Corporate Crisis Management Team – Comprehensive team established at the Emergency Operations Centre to support the field and IMT response. The CCMT provides direction and support for local actions with emergency management response guidance, designed to enhance the local facility's emergency plan and capabilities; while also managing external pressure(s)from the media, local community or other stakeholders to allow the local response team to focus on containing the issue itself.

Corporate Level ERP - A corporate-level ERP is used when a specific ERP is not required and contains preplanned procedures that will allow for effective response to an emergency

Corporate Strike Team - The Corporate Strike Team (CST) is comprised of enterprise-wide personnel that respond to the local incident scene and directly support the on-site Facility Response Team through the Incident Command Structure (ICS). The CST is responsible for communicating and coordinating activities through the Responsible Party Incident Commander (RPIC).

Cost Unit - Functional unit within the Finance/ Administration Section responsible for tracking costs, analyzing cost data, making cost estimates, and recommending cost-saving measures.

Decontamination – The process of removing or neutralizing contaminants that have accumulated on personnel and equipment.

Deputy - A fully-qualified individual who, in the absence of a superior, could be delegated the authority to manage a functional operation or perform a specific task. In some cases, a Deputy could act as relief for a superior, and, therefore, must be fully qualified in the position. Deputies can be assigned to the Incident Commander, General Staff, and Branch Directors.

Demobilization Unit - Functional unit within the Planning Section responsible for assuring orderly, safe, and efficient demobilization of incident resources.



Director - The ICS title for individuals responsible for supervising a Branch.

Dispatch - The implementation of a command decision to move resources from one place to another.

Dispatch Centre - A facility from which resources are directly assigned to an incident.

Division - The organization level having responsibility for operation within a defined geographic. The Division level is organizationally between the Task Force/Strike Team and the Branch. (See also "Group"). Divisions may be led by a Division Supervisor.

Documentation Unit - Functional unit within the Planning Section responsible for collecting, recording, and safeguarding all documents relevant to the incident.

E2 Emergency Planning Zone (E2 EPZ) - A geographical area surrounding a facility and associated on-site storage containing hazardous product that represents the most likely emergency scenario and requires specific emergency response planning by the licensee.

E2 Worst Case Zone - A geographical area surrounding a facility and associated on-site storage containing hazardous product that represents the worst case emergency scenario.

Emergency - A present or imminent event that requires prompt coordination of action or special regulation of persons or property to protect health, safety or welfare of people or to limit damage to property.

Emergency Management – Management of an emergency or incident. The PMC ICS organization is designed to fulfill the emergency management role.

Emergency Medical Technician (EMT) - A health-care specialist with particular skills and knowledge in pre-hospital emergency medicine.

Emergency Operations Centre (EOC) - A pre-designated facility established by company, agency or jurisdiction to coordinate overall jurisdictional/agency response/support to emergency response.

Emergency Planning Zone (EPZ) - A geographical area surrounding a well, pipeline, or facility containing hazardous product that requires specific emergency response planning by the licensee.

Emergency Shut Down Valve (ESD) - A valve that blocks the passage of material from both directions and can automatically close when the amount of material passing through the valve exceeding allowable limits.

ERCBH2S - A software tool that calculates site-specific EPZs using thermodynamics, fluid dynamics, atmospheric dispersion modelling, and toxicology.

Evacuation - The removal of people from the incident area or EPZ.

Explosive Limits (Lower and Upper) - Each gaseous hydrocarbon substance has a minimum (Lower Explosive Limit or LEL) and a maximum (Upper Explosive Limit or UEL) percentage in air below or above which combustion will not take place. Explosive limit and flammability limit are used interchangeable. The terms "Too Lean" and "Too Rich" are used for levels outside of the explosive range.



Facilities Unit - Functional unit within the Support Branch of Logistics Section that provide fixed facilities for incident. These facilities include Incident Base, feeding areas, sleeping areas, sanitary facilities, etc.

Finance/Administration Section - The Section responsible for all incident costs and financial considerations. Includes the; Time Unit, Procurement Unit, Compensation/Claims Unit, and Cost Unit.

Fire Hazard Order - An order issued by the ERCB during an emergency to restrict public access to a specified area.

Government Emergency Operations Centre (GEOC) - An operations centre with capacity to accommodate CMO's from each Government department. It is comprised of two centres, the Consequence Management Operations Centre (COMOC) and the Crisis Management Operations Centre (CRMOC). The GEOC was formerly known as the EMAOC or COMOC. Also called Provincial Operations Centre (POC).

Food Unit - Functional unit within the Service Branch of the Logistics Section responsible for providing meals for incident personnel.

Function - In ICS, function refers to the five major activities in the ICS, i.e., Command, Operations, Planning, Logistics, and Finance/Administration. The term function is also used when describing the activity involved, Ex. "the planning function."

General Plan - A long-range plan to manage an incident. The General Plan is used to identify long-range objectives and resource requirements. The General Plan defines time line and framework looking into future and covering the duration of response.

General Staff - The group of incident management personnel comprised of; Incident Commander, Operations Section Chief, Planning Section Chief, Logistics Section Chief, and Finance/Administration Section Chief.

Geographic Information System (GIS) - An electronic information system that provides a georeferenced data base to support management decision-making.

Ground Support Unit - Functional unit within Support Branch of the Logistics Section responsible for fueling, maintaining, vehicle repair, and ground transportation of personnel and supplies.

Group - Groups are established to divide the incident into functional areas of operation. Groups are composed of resources assembled to perform special function not necessarily within a single geographic Division (see Division). Groups are located between Branches (when activated) and Single Resources in the Operations Section.

Hazardous Product - Substances released in quantities that may harm persons, property or the environment.

Heli-base - Location within the general incident area for parking, fueling, maintaining, and loading helicopters.

Heli-spot - Location where helicopters can take off/land. Some may be used for temporary loading.





High Vapour Pressure (HVP) - A pipeline system containing hydrocarbon mixture in the liquid or quasiliquid state with a vapour pressure greater than 110 kPa absolute at 380°C. Some examples are liquid ethane, ethylene, propane, butanes, and pentanes plus. HVP lines have a vapour pressure greater than 240 kPa at 38°C (34.8 PSIG at 100°F) and include ethane, propane butane, and pentanes plus, either as a mixture or as a single component.

Hydrogen Sulphide (H₂S) - A naturally occurring gas found in a variety of geological formations and also formed by the natural decomposition of organic matter in the absence of oxygen. H₂S is colourless, has a molecular weight that is heavier than air, and is extremely toxic. In small concentrations it has a rotten egg smell and causes eye and throat irritation. Depending on the particular gaseous mixture, gas properties, and ambient conditions, a sour gas release may be

- heavier than air so that the gas cloud will tend to drop towards the ground with time (dense),
- lighter than air so the gas cloud will tend to rise with time (buoyant), or
- about the same weight as air so that it tends to neither rise nor drop but disperses (neutrally buoyant).

Ignition - Process of setting a hydrocarbon release on fire.

Incident - An unexpected occurrence or event, caused by human or natural phenomena, that requires action by upstream and/or emergency personnel, to prevent or minimize the impact on the safety or health of people, property or the environment.

Incident Action Plan (IAP) - Incident Action Plan contains Objectives reflecting the overall incident and specific strategies and tactics for the next operational period. IPAs will include attachments when complete.

Incident Area - Legal geographical area of incident including affected area(s) and traffic route(s) to corresponding storage and disposal sites.

Incident Base - See Base.

Incident Commander (IC) - Individual(s) responsible for managing all incident activities.

Incident Command Post (ICP) - Location at which the primary Command functions are executed; may be co-located with the incident base.

Incident Command System (ICS) - Standardized on-scene emergency management system specifically designed to allow its user(s) to adopt an integrated organizational structure equal to the complexity and demands of single or multiple incidents, without being hindered by jurisdictional boundaries.

Incident Communication Centre - Location of the Communications Unit and the Message Centre.

Incident Objectives - Statements of guidance and direction necessary for the selection of appropriate strategies, and tactical direction of resources. Incident objectives are based on realistic expectations of what can be accomplished when all allocated resources have been effectively deployed. Incident objectives must be achievable and measurable, yet flexible enough to allow for strategic and tactical alternatives.

Incident Management Handbook (IMH) - A pocket-size manual of guidelines regarding application of the ICS.



Incident Management Team (IMT) - Comprehensive team established at ICP to include all components of a Command, General Staff and support personnel. IMT members have delegated authority and formal responsibilities.

Incident Situation Display (ISD) - The Situation Unit is responsible for maintaining a display of status boards which communicate critical incident information vital to establishing and maintaining an effective command and control environment.

Initial Isolation Zone (IIZ) - An area in close proximity to a continuous hazardous release where indoor sheltering may provide temporary protection due to the proximity of the release.Isolation - To separate an area or process from the rest of the plant.

Public Information Officer (PIO) - A member of the Command Staff responsible for providing incident information to the public and news media or other agencies or organizations. There is only one PIO per incident. The PIO may have assistants.

Jurisdiction - A range or sphere of authority. At an incident, public agencies have jurisdiction related to their legal responsibilities and authority for incident mitigation. Jurisdictional authority at an incident can be political/geographical (Ex. city, county, municipality, or Federal boundary lines), or functional (Ex. police department, health department, etc.). (See Multi-Jurisdiction).

Jurisdictional Agency - Agency having jurisdiction and responsibility for specific geographical area, or mandated function.

Leader - The ICS title for an individual responsible for a Task Force/Strike Team or functional Unit.

Liaison Officer (LO) - A member of the Command Staff responsible for coordinating with stakeholder groups and representatives from assisting and cooperating agencies.

Liquefied Petroleum Gas (LPG) - Mixture of heavier, gaseous hydrocarbons (butane and propane), liquefied as a portable source of energy.

Logistics Section - The Section responsible for providing facilities, services, and materials for the incident.

Lower Explosive/ Flammable limit (LEL/LFL) - The lowest concentration of gas or vapour (per cent by volume in air) that burns or explodes if an ignition source is present at ambient temperatures.

Mobile Air Quality Monitoring - The use of sophisticated portable equipment capable of measuring meteorological conditions and tracking substances such as H₂S or SO₂ and of measuring very low (ppb) atmospheric concentrations and also capable of being able to record and provide preliminary analysis (eg. averaging values over time) of the monitored readings.

Managers - Individuals within ICS organizational units who are assigned specific managerial responsibilities (Ex. Staging Area Manager or Camp Manager).

Medical Unit - Functional unit within the Service Branch of the Logistics Section responsible for developing the Medical Plan, and for providing emergency medical treatment for incident response personnel.



Message Centre - The message centre is part of the Communications Centre and collocated with or adjacent to it. It receives, records, and routes information about resources reporting to the incident, resource status, and handles administration and tactical traffic.

Multi-Agency Incident - Incident where one or more agencies assist jurisdictional agency/agencies. May be single or Unified Command.

Multi-Jurisdiction Incident - Incident requiring action from multiple agencies that have statutory responsibility for incident mitigation. In ICS, these incidents will normally be managed using a Unified Command.

Officer - ICS title for personnel responsible for Command Staff positions of Safety, Liaison, and Information.

Operational Period - Period of time scheduled for execution of given set of operational actions specified in the IAP. Operational Periods can be various lengths, usually not over 24 hours.

Operations Section - Responsible for all operations directly applicable to the primary mission. Directs unit operational plans preparation, requests or releases resources, makes expedient changes to the Incident Action Plan (as necessary), and reports such to the Incident Commander. Includes the Recovery and Protection Branch, Emergency Response Branch, Air Operations Branch, and Wildlife Branch.

Out-Of-Service Resources - Resources assigned to an incident but unable to respond for mechanical, rest, or personnel reasons.

Planning Meeting - A meeting, held as needed throughout the duration of an incident, to select specific strategies and tactics for incident control operations and for service and support planning.

Planning Section - Responsible for collecting, evaluating, and disseminating tactical information related to the incident, and for preparing and documenting IAPs. The section also maintains information on the current and forecast situation, and on the status of resources assigned to the incident. Includes the Situation, Resource, Environmental, Documentation, and Demobilization Units, and Technical Specialists.

Polrep - Pollution report.

Preplanned Strategy - Strategies developed and documented prior to an incident.

Procurement Unit - Functional unit within Finance/Administration Section responsible for financial matters involving vendor contracts.

Protective Action Zone (PAZ) - An area downwind of a hazardous release where outdoor concentration levels may result in life threatening or serious and possibly irreversible health effects to the public.

Provincial Emergency Operations Centre (PEOC) - also called GEOC

Radio Cache - A cache may consist of a number of portable radios, a base station, and, in some cases, a repeater stored in a predetermined location for dispatch to incidents.



Reception Centre - A centre established to register evacuees and to assess their needs. The centre is used to register evacuees for emergency shelter or, if temporary shelter is not required because evacuees will stay elsewhere, to ascertain where they can be contacted.

Recorders - Individuals within ICS organizational units who are responsible for recording information. Recorders may be found in Planning, Logistics, and Finance/Administration.

Regional Emergency Operations Centre (REOC) - A single operations centre established in a suitable location to manage the larger aspects of the emergency and is manned jointly by a level of government and industry staff.

Reporting Location - Any one of six facilities/locations where incident assigned resources may be checked in. The locations are: Incident Command Post-Resources Unit, Base, Camp, Staging Area, Helibase, or Division/Group Supervisors (for direct line assignments.) Check-in for each specific resource occurs at one location only.

Resources - All personnel and major items of equipment available, or potentially available, for assignment to incident tasks on which status is maintained.

Resources at Risk Technical Specialist (RAR) - Responsible for identifying at risk resources from exposure to spilled oil by analyzing known and anticipated oil movement, the location of natural cultural and economic resources.

Resource Status - Describes the current operational status of response resources. ICS recognizes three definitions - available, assigned and out-of-service. Oil spill resource tracking also recognizes an en-route status.

Resources Unit - Functional unit within the Planning Section responsible for recording the status of resources committed to the incident. The Unit also evaluates resources currently committed to the incident, the impact that additional responding resources will have on the incident, and anticipated resource needs.

Responsible Party (RP) - The owner/operator (PMC) of the infrastructure which is the spill source.

RP Incident Commander (RPIC) - PMC's designated Incident Commander.

Safety Officer (SO) - A member of the Command Staff responsible for monitoring and assessing safety hazards or unsafe situations, and for developing measures for ensuring personnel safety. The Safety Officer may have assistants.

Section - The organization level having functional responsibility for primary segments of incident operation such as: Operations, Planning, Logistics, Finance/ Administration. The Section level is organizationally between Branch and Incident Commander.

Service Branch - A Branch within the Logistics Section responsible for service activities at the incident. Includes the Communications, Medical, and Food Units.

Shelter In Place - Remaining indoors for short term protection from exposure to toxic gas releases.

Single Resource - Individual, a piece of equipment and its personnel complement, or a crew or team of individuals with an identified work supervisor that can be used on an incident.

Site Safety And Health Plan (SSHP) - Site-specific document required by Provincial and Federal regulations. The SSHP, at minimum, addresses, includes, or contains the following elements: health and safety hazard analysis for each site task or operation, comprehensive operations work plan, personnel training requirements, PPE selection criteria, site-specific occupational medical monitoring requirements, air monitoring plan, site control measures, confined space entry procedures (if needed), pre-entry briefings (tailgate meetings, initial and as needed), pre-operations commencement health and safety briefing for all incident participants, and quality assurance of SSHP effectiveness.

Situation Unit - Functional unit within the Planning Section responsible for collecting, organizing, and analyzing incident status information, and for analyzing the situation as it progresses.

Situation Status - Activity of documenting and communicating operational response status.

Sulphur Dioxide (SO₂) - A colourless, water-soluble, suffocating gas formed by burning sulphur in air; also used in the manufacture of sulphuric acid. SO₂ has a pungent smell similar to a burning match. SO₂ is extremely toxic at higher concentrations. The molecular weight of SO₂ is heavier than air; however, typical releases are related to combustion therefore making the gaseous mixture lighter than air (buoyant).

Source Control - Actions necessary to control the spill source and prevent the continued release of oil or hazardous substance(s) into the environment.

Span of Control – Span of Control means how many organizational elements may be directly managed by one person. Span of Control may vary from three to seven, and a ratio of one to five reporting elements is recommended.

Staging Area - The location where incident personnel and equipment are staged awaiting tactical assignment.

Stakeholders - Any person, group, or organization affected by, and having a vested interest in, the incident and/or the response operation.

Strategy - The general plan or direction selected to accomplish incident objectives.

Strike Team - Specified combinations of the same kinds and types of resources, with common communications and a leader.

Surface Development - Occupied permanent or part-time dwellings, publicly used facilities including campgrounds, places of business, and any other surface development where the public may gather on a regular basis. Surface development includes residences that are required to egress through the EPZ and those immediately adjacent to the EPZ.

Supervisor - The ICS title for individuals responsible for directing the activities of a Division or Group.

Supply Unit - Functional unit within the Support Branch of the Logistics Section responsible for ordering equipment and supplies required for incident operations.

Support Branch - A Branch within the Logistics Section responsible for providing personnel, equipment, and supplies to support incident operations. Includes the Supply, Facilities, Ground Support, and Vessel Support Units.



Supporting Materials - Refers to the several attachments that may be included with an Incident Action Plan (Ex. communications plan, map, site safety and health plan, traffic plan, and medical plan).

Tactical Direction - Directions given by the Operations Section Chief including: the tactics appropriate for the selected strategy; the selection and assignment of resources; tactics implementation; and performance monitoring for each operational period.

Tactics - Deploying and directing resources during an incident to accomplish the desired objective.

Task Force - A group of resources with common communications and a leader assembled for a specific mission.

Technical Specialists - Personnel with special skills who can be used anywhere within the ICS organization.

Time Unit - Functional unit within the Finance/Administration Section responsible for recording time for incident personnel and hired equipment.

Unified Command (UC) - Unified team which manages an incident by establishing a common set of incident objectives and strategies. This is accomplished without loss nor abdication of agency nor organizational authority, responsibility, nor accountability.

Unit - The organizational element having functional responsibility for a specific incident planning, logistic, or finance/administration activity.

Vapour Density - A measure of the weight of the gas compared to air (air = 1).

Vapour Pressure - The pressure exerted by the vapour when the rate of evaporation is equal to the rate of condensation of the vapour.

Vessel Support Unit - Functional unit within the Support Branch of the Logistics Section responsible for implementing the Vessel Routing Plan; for fueling, maintaining, and repairing vessels and other vessel support equipment; and coordinating transportation on the water and between or among shore resources.

Volunteer - Any individual accepted to perform services by an agency which has the authority to accept volunteer services. A volunteer is subject to the provisions of the authorizing statute or regulations.



7.6 Characteristics of H₂S and SO₂

Characteristics and Dangers of Hydrogen Sulphide (H₂S)

- Found in decaying organic matter, natural oil and gas, silos and sewers.
- Found at gas temperatures above -60°C.
- Flammable burns to form SO₂.
- Odour of rotten eggs at low concentrations that kills all sense of smell at higher concentrations.
- Will tend to disperse more slowly in sheltered or calm low lying areas.
- Extremely toxic.
- At lower concentrations (20-50 ppm) irritates mucous membranes (eyes, throat, lungs), causes headaches, dizziness, nausea, may cause pulmonary edema (fluid in the lungs) upon prolonged exposure.
- High concentrations (500-1000 ppm) may cause paralysis of the respiratory centre in the brain and breathing stops.

H₂S Toxicity Table

Concentration H ₂ S in Air (ppm)	Description of Potential Health Effects
1	A noticeable odour that may be offensive to some individuals. People may temporarily experience mild symptoms of discomfort, including nausea, headache, and irritability due to the odour. Asthma symptoms may worsen.
10-20	An obvious offensive odour. Temporary eye irritation may occur after a single exposure and last several hours. Symptoms include mild itchiness, dryness, increased blink reflex and slight watering. Some people may experience headaches, nausea and vomiting. Symptoms of asthma, bronchitis or other forms of chronic respiratory disease may worsen.
50	A strong, intense offensive odour that may irritate eyes and breathing passages. Eyes may be itchy, stinging, and red with increased blinking, tearing and tendency to rub eyes. Breathing passages could feel tingly or sting, with increased tendency to clear throat and cough. Symptoms of pre-existing respiratory disease may worsen. No permanent injury to eyes or breathing passages is expected unless exposure is prolonged. Odour–sensitive individuals may experience headaches, nausea, vomiting and diarrhea.
100	Initially there is a strong objectionable odour that lessens with prolonged exposure due to olfactory "fatigue." Eyes and breathing passages are often irritated within one hour of exposure. Eyes may be sore, stinging, burning, tearing, redness, swelling of eyelids, and possible blurred vision. Respiratory irritation may include sore throat, cough, soreness or stinging of breathing passages, and wheezing. The symptoms of asthma, bronchitis or other forms of chronic respiratory disease will worsen. Odour may cause headache, nausea, vomiting and diarrhea.



Concentration H ₂ S in Air (ppm)	Description of Potential Health Effects
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.
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.

NOTE: 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

Characteristics and Dangers of Sulphur Dioxide (SO₂)

- This is a choking gas, unlike H₂S, and one wants to move to an area where the discomfort is not experienced.
- Formed by the combustion of H₂S or sulphur and is non-flammable.
- Found as a gas at temperatures above -10°C.
- Has the odour that occurs when a wooden match is extinguished.
- Highly irritating dissolves to form sulphuric acid.
- At lower concentrations irritates eyes, nose and throat, causes difficulty in breathing and shortness of breath.
- Causes pulmonary edema at high concentrations may be fatal. Effects on heavy smokers are more severe.



SO₂ Toxicity Table

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	Definitely irritating to the eyes; chronic respiratory symptoms develop; respiratory protection is necessary.
50 – 100	Maximum tolerable exposures for 30 – 60 minutes.
Greater than 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.

NOTE: 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



7.7 Canadian Environmental Protection Act (E2) Requirements

Environment Canada requires any petroleum operator who has charge, management, or control of substances in excess of threshold limits listed in '*Schedule 1 of the Canadian Environmental Protection Act*' to:

- Submit notices (some periodic) to inform ECCC of compliance with the regulatory requirements
- Prepare an Environmental Emergency Plan (E2 Plan) and review and update it, if necessary, at least once per year
- Bring the E2 Plan into effect to make sure the facility is ready to respond to an accidental release
- Conduct simulation exercises of the E2 Plan each year, a more extensive simulation exercise every five years and prepare a record after each exercise to be kept for a minimum of 7 years
- Keep a copy of the E2 Plan readily available at the facility and other places where it is needed

For details about the PMC storage facilities, Facility Licence Numbers, Facility Codes, types of containers, substances stored [United Nations (UN) Number], guide numbers, quantities, volumes, transportation methods, transportation frequencies, and Canadian Transport Emergency Centre (E2) Zones refer to the appropriate PMC Site-Specific Supplemental Section.

Description of Surrounding Area

For area specific Emergency Response Plans (ERPs) - Refer to *9.2 General Area Description* for a description of the surrounding area.

Emergency Response Planning

- For a map showing the E2 Zone(s) refer to Section 9: Area Specific Information: Maps and Plot Plans and Environmental Emergency Plan.
- For a plot plan refer to Section 9: Area Specific Information: Maps and Plot Plans.
- For the location of the surface developments inside the E2 Zone(s) refer to Section 9: Area Specific Information: Maps and Plot Plans and Environmental Emergency Plan.
- To identify the various roadways and waterways/water bodies inside the E2 Zone(s) refer to Section 9: Area Specific Information and Environmental Emergency Plan (Characteristics of the Facility and Surrounding Area).
- For the list of applicable ECCC Sensitive Receptors and Response Considerations in the E2 Zones(s) refer to Section 9: Area Specific Information: Environmental Emergency Plan (Characteristics of the Facility and Surrounding Area).
- For government agencies that may be affected by an environmental emergency refer to the appropriate Site-Specific Supplemental Section and Environmental Emergency Plan.
- For mutual aid refer to the mutual section in *Section 8: Government Agencies and Local Authorities.*
- For procedures to carry out response activities refer to *Section 2: Roles and Responsibilities*.



Prevention and Mitigation

PMC has in place the following key elements of safety management:

- Risk assessment as appropriate the following questions have been reviewed:
 - Is the product bullet or storage tank properly installed and a proper maintenance schedule followed?
 - Is the product bullet or storage tank free of any corrosion and damage?
 - If required, is the piping painted?
 - Is the product bullet or storage tank an adequate distance from buildings?
 - Is the product bullet or storage tank or systems (including piping) of which they are part of protected from damage from vehicles?
 - Is the area around the product bullet or storage tank well ventilated and free of any possible ignition source?
 - o Is the area around the product bullet or storage tank free from combustible material?
 - Is the product bullet or storage tank properly grounded to avoid static accumulation?
 - Are operators of the equipment instructed to wear appropriate personal protective equipment (PPE)?
 - Are any hoses or fittings visually inspected before use?
 - Have the employees been certified in the proper use and handling of NGLs and condensate?
 - Have all employees and anyone else who may be responsible for implementing this plan been made aware of their responsibilities and have the necessary skills and training?
- The systems are designed and constructed to specific industry standards.
- PMC has preventive maintenance checks and programs.
- PMC is committed to maintaining effective operating procedures and facility documentation.
- Operator competence is ensured through determining the type and amount of training each employee requires upon hiring.
- Process and procedures are in place to ensure that changes in design, service, or staff are effectively managed to minimize impacts on operations.
- Incident investigation and analysis is conducted to minimize reoccurrence
- Regular review is carried out to assess compliance to standards.

Preparedness - Most Reasonable Worst Case Scenario

Using a HAZOP risk assessment technique or similar, PMC has identified the Most Reasonable Worst Case Scenario of an Environmental Emergency to include the following.

- A valve leak from a product bullet or storage tank.
- A product bullet or storage tank spill or leak becoming ignited.
- A cascading (secondary effect) fire igniting the product bullet or storage tank.



PMC has identified that "Common and Reasonable Alternative Scenarios" would most likely be a leak or spill while loading or unloading a product bullet or storage tank.

PMC has identified the potential consequences from an environmental emergency on the environment and human life or health to be serious injury or fatality in the event of an explosion or leak.

Emergency Preparedness Standards

Refer to *Section 8: Government Agencies and Local Authorities* for specific provincial or regulatory training and exercise requirements. PMC emergency management program standards are outlined in *7.2 Training Requirements*. This includes details regarding orientations, specialized emergency response training, table tops, full scale exercises, and exercise records.

Recovery

PMC will shut in the affected pipeline or facility, assess and respond to the environmental impacts in compliance with all regulation, only bringing the pipeline system or facility back on stream in the most efficient manner. PMC has the resources and financial ability to respond and recover from any environmental emergency.



7.8 Transportation of Dangerous Goods (TDG)

PMC is required to report a release or anticipated release of dangerous goods that are being offered for transport, handled or transported by road vehicle, railway vehicle or vessel must, as soon as possible after a release or anticipated release, make an emergency report to any local authority that is responsible for responding to emergencies at the geographic location of the release or anticipated release if the dangerous goods are, or could be, in excess of the quantity set out in the following table:

TABLE		
Class	Packing Group or Category	Quantity
1	II	Any quantity
2	Not applicable	Any quantity
3, 4, 5, 6.1 or 8	l or ll	Any quantity
3, 4, 5, 6.1 or 8	III, or without packing group	30 L or 30 kg
6.2	A or B	Any quantity
7	Not applicable	A level of ionizing radiation greater than the level established in section 39 of the <u>Packaging and</u> <u>Transport of Nuclear Substances Regulations, 2015</u>
9	II or III, or without packing group	30 L or 30 kg

SOR/2016-95, s. 10 SOR/2017-253, s. 52 SOR/2019-101, s. 9

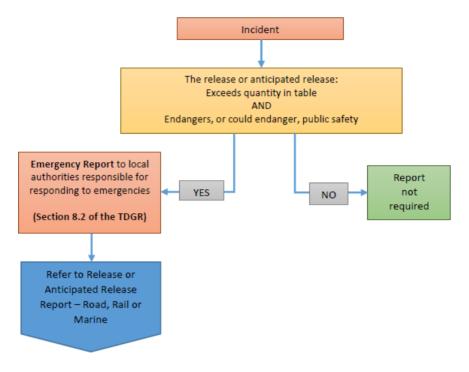
Types of reports required by Transport Canada

Part 8 of the *Transportation of Dangerous Goods Regulations SOR/2001-286* (Reporting Requirements) requires a number of different report types. When certain conditions are met, persons subject to the TDG Regulations must submit one of the report types below.

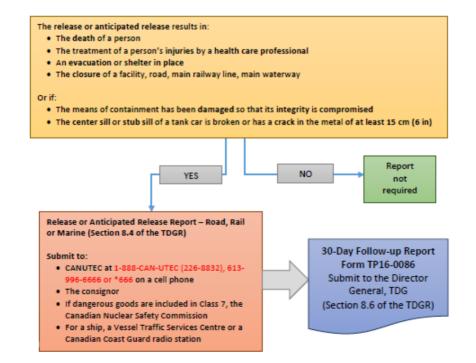
- Reports for the Transport of Dangerous Goods by Road, Rail and Marine
- Emergency Report Road, Rail or Marine (Section 8.2 of the TDG Regulations)
- Release or Anticipated Release Report Road, Rail or Marine (Section 8.4 of the TDG Regulations)
- 30-Day Follow-up Report (Section 8.6 of the TDG Regulations)
- Reports for the Transport of Dangerous Goods by Air
- Dangerous Goods Accident or Incident Report Air (Section 8.9 of the TDG Regulations)
- 30-Day Follow-up Report (Section 8.11 of the TDG Regulations)
- Undeclared or Misdeclared Dangerous Goods Report (Section 8.14 of the TDG Regulations)
- Dangerous Goods Occurrence Report (ICAO) (Section 8.15.1 of the TDG Regulations)
- Reports Relating to Security All Modes of Transport
- Loss or Theft Report (Section 8.16 of the TDG Regulations)
- Unlawful Interference Report (Section 8.18 of the TDG Regulations)



Flowchart for Emergency Report – Road, Rail or Marine



Flowchart for a release or anticipated release report - Road, Rail or Marine by telephone





In the event of an emergency involving dangerous goods, call CANUTEC at **1-888-CAN-UTEC** (226-8832), **613-996-6666** or ***666** on a cellular phone. CANUTEC's emergency response advisors provide immediate advice over the phone about the actions to take and to avoid during a dangerous goods emergency. They can also send technical information to local authorities responsible for responding to emergencies by email or fax during an incident.

In the case of dangerous goods included in **Class 1, Explosives** included in Class 1.1, 1.2, 1.3, 1.4 (except for 1.4S), 1.5 or 1.6, a Natural Resources Canada inspector at 613-995-5555

In the case of dangerous goods included in Class 7, Radioactive Materials, the Canadian Nuclear Safety Commission at 1-844-879-0805.

Refer to the following link to access the Transport Canada *Guide for Reporting Dangerous Goods Incidents*:

https://tc.canada.ca/sites/default/files/2022-03/guide for reporting dangerous goods incidents 2021.pdf



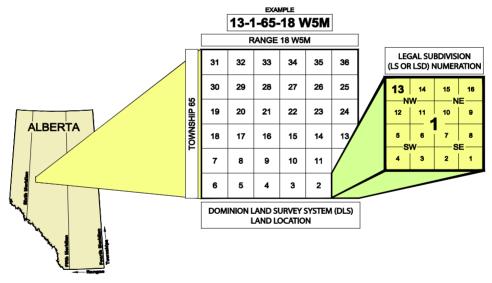
7.9 Dominion Land Survey System (DLS)

Alberta, Saskatchewan and Manitoba

PMC is required to report a release or anticipated release of dangerous goods that are being offered Any parcel of land can be located by its legal land description. Legal land descriptions are based on the Dominion Land Survey System. The Dominion Land Survey System is a grid network dividing most of Western Canada into equal-sized parcels of land.

Under the Dominion Land Survey System, land is designated as being west of a meridian. Between meridians are six-mile wide columns called Ranges. Ranges are numbered consecutively from east to west starting at Range 1 west of each meridian. Range numbers reset to 1 at each meridian. Townships are six-mile wide rows that intersect ranges and are numbered consecutively from Township 1 at the Montana border to Township 126 at the Northwest Territories border.

The term township also describes the six by six square mile formed by the intersection of ranges and townships. Townships are divided into 36 sections, each section measuring one by one mile. Sections can then be divided into quarters (NE, NW, SE, SW) or into 16 legal subdivisions (LSD or LS) as indicated. The legal description of the section highlighted in the diagram would be written as follows:



Legal Land Description

		LSD or LS	Section	Township	Range	Meridian			
	Example	13	01	065	18	West of the 5th			
Defi	nitions								
Section: is a piece of land that measures one mile by one mile									
Qua	rter:	is a quarter sectio	n						
Tow	nship:	is a block of 36 se	ctions, measurin	g six miles by six	miles				
Mer	idian:	is a north-south li Winnipeg and is t		•					



7.10 Concessions and Lots

Ontario

Most of southern Ontario employs a survey system based on counties, townships, concessions, and farm lots. A county is grouped together by several named townships of unequal size and shape. Each township was divided into strips called concessions. Think piano keys. The concessions were further divided into 100, 200, or 300-acre lots. The names of these concessions with their township and the lot numbers are all part of the legal description of the property.

Most concessions are named with a simple number like 1, 2, 3 (often shown as Roman numerals) or letter like A, B, C. But many townships, perhaps most townships, have several concessions with unique designations. For example, Lot 7, Concession 5, Sandwich. In the example Sandwich represents a township.



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SECTION 8: Government Agencies and Local Authorities

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8.1 Incident, Spill and Release Reporting Requirements

8.1.1 Ontario Reporting Requirements

Ontario Energy Board (OEB) Reporting

What should be reported?

Any level of emergency or any spill as defined by the Ministry of the Environment and Climate Change.

When and how to report?

Immediately report verbally to both the Ministry of the Environment and Climate Change - Spills Action Centre at

1-800-268-6060 or 416-325-3000 and Emergency Management Ontario (EMO) Duty Officer at 416-314-0472 or 1-866-314-0472.

Ministry of the Environment and Climate Change Reporting Requirements

What should be reported?

A spill must be reported if it:

Harms or causes material discomfort to any person.

Injures or damages property or animal life.

Impairs the quality of the natural environment air, water, or land.

Causes adverse health effects.

Presents a safety risk.

Renders property, plant, or animal life unfit for use.

Leads to the loss of enjoyment of the normal use of property.

Interferes with the normal conduct of business.

Spill - are releases of pollutants into the natural environment from a structure, vehicle or other container that is abnormal in quality or quantity.

For additional details, spill classifications, and volumes, refer to the Classification and Exemption of Spills and Reporting of Discharges at https://www.ontario.ca/laws/regulation/980675.

When and how to report?

Ministry of the Environment and Climate Change maintains a 24-hour reporting line for environmental emergencies. Spills must immediately be reported to the Spills Action Centre at 1-800-268-6060. Spills must also be reported immediately to the municipality and the person in control of the substance, if known, and not already aware.

Where requested to do so by an environment officer, a person shall file a written report with the department setting out such information as is requested by the environment officer. [Canadian Environmental Protection Act (CEPA) Section 201 requires a written report within 30 days.]



Chemical Class	Road, Rail or Marine Amount	Loss or Theft Amount
Class 1 Explosives		Any quantity in Class 1.1, 1.2, and 1.3
LAPIOSIVES	Any quantity of Packing Group II	Total quantity of 450 kg or more in Class 1.4 (except 1.4S), 1.5, or 1.6
Class 2.1 Flammable Gases		Total quantity of 450 kg or more
Class 2.2 Non– Flammable Gases	Any quantity	No TDG Reporting Requirements
Class 2.3 Toxic Gases (poisonous or corrosive)		Any quantity
Class 3 Flammable liquids		Total quantity of 450 kg or more of desensitized explosives
		Any quantity of UN1261, Nitromethane
Class 4.1 Flammable solids	-	Total quantity of 450 kg or more of desensitized explosives
		Any quantity of UN1357, Urea Nitrate, with not less than 20% water, by mass; UN3370, Urea Nitrate, Wetted, with not less than 10% water by mass
Class 4.2 Spontaneously Combustible		Total quantity of 450 kg or more in Packing Groups I or II
Class 4.3 Dangerous when wet	-	Total quantity of 450 kg or more in
Class 5.1		Packing Groups I or II
Oxidizing substances	Any quantity of Packing	Total quantity of 450 kg or more in Packing Groups I or II
	Group I or II More than 30 L or 30 kg of Packing Group III	Any quantity of UN1485, Potassium Chlorate; UN1486, Potassium Nitrate; UN 1487, Potassium Nitrate and Sodium Nitrate (UN 1487, Potassium Potassium Perchlorate; UN1495, Sodium Chlorate; UN1498, Sodium Nitrate; UN1499 Sodium Nitrate and Potassium Nitrate Mixture; UN1511, Urea Hydrogen Peroxide; UN1942 Ammonia Nitrate, with not more than 0.2% combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substances; UN2014 Hydrogen Peroxide, Aqueous Solution with not less than 20% but not less than 60% hydrogen peroxide (stabilized as necessary); UN2015, Hydrogen Peroxide, Stabilized; UN2031, Nitric Acid, other than red fuming; UN3149, Hydrogen Peroxide and Peroxyacetic Acid Mixture with acid(s), water and not more than 5% peroxyacetic acid, stabilized
Class 5.2 Organic peroxides		Any quantity in Class 5.2, Type B, liquid or solid, temperature controlled
Class 6.1 Toxic substances		Any quantity of Packing Group I
Class 6.2 Infectious substances	Any quantity of Category A or B	Any quantity



Chemical Class	Road, Rail or Marine Amount	Loss or Theft Amount
Class 7 Radioactive materials	For packages being transported under exclusive use: (i) 10 mSv/h on the external surface (ii) 2 mSv/h on the surface of the conveyance, and (iii) 0.1 mSv/h at a distance of 2 m from the surface	
	For packages not being transported under exclusive use:	Any quantity
	(i) 2 mSv/h on the external surface (ii) 0.1 mSv/h at a distance of 1m from the package, (iii) 2 mSv/h on the surface of the conveyance, and (iv) 0.1 mSv/h at a distance of 2m from the surface of the conveyance.	
Class 8 Corrosives	Any quantity of Packing Group I or II	Total quantity of 450 kg or more in Packing Group I or II
	30 L or 30 kg of Packing Group III	Any quantity of UN1796, Nitrating Acid Mixture with more than 50% nitric acid; UN1826, Nitrating Acid Mixture, Spent, with more than 50% nitric acid; UN2032, Nitric Acid, Red Fuming
Class 9 Miscellaneous products, substances or organisms	25 kilograms or 25 litres	
Class 9.1 Miscellaneous (except and with PCB mixtures)	30 L or 30 kg of Packing Group	No TDG Reporting Requirements
Class 9.2 Aquatic Toxic	ll or III, or without Packing Group	
Class 9.3 Wastes (chronic toxic)		



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8.1.2 Federal Reporting Requirements

Canada Energy Regulator (CER) Reporting Requirements

What should be reported?

A company shall immediately notify the CER of any significant incident. A significant incident is any acute event that results in:

A death.

A missing person [as reportable pursuant to the Canada Oil and Gas Drilling and Production Regulations (DPR) under the Canada Oil and Gas Operations Act (COGOA) or the Oil and Gas Operations Act (OGOA)].

A serious injury (as defined in the Onshore Pipeline Regulations or TSB regulations).

A fire or explosion that causes a pipeline or facility to be inoperative.

A LVP hydrocarbon release in excess of 1.5 m³ that leaves company property or the right-of-way.

A rupture.

A toxic plume as defined in CSA Z662.

Transportation Safety Board (TSB) Reporting Requirements

What should be reported?

A company shall immediately notify the TSB as soon as possible after discovery of any significant pipeline occurrence that results in:

A death.

A serious injury (defined in the Onshore Pipeline Regulations or the Transportation Safety Board Regulations). An unintended or uncontrolled low-vapour pressure (LVP) hydrocarbon release in excess of 1.5 m³ that leaves company property or occurs on or off the right-of-way.

An unintended or uncontrolled sweet natural gas or HVP release > 30,000 m³.

Any unintended or uncontrolled release of sour natural gas or hydrogen sulphide.

A significant adverse effect on the environment (a release of any chemical or physical substance at a concentration or volume sufficient to cause an irreversible, long-term, or continuous change to the ambient environment in a manner that causes harm to human life, wildlife, or vegetation)

A rupture:

An instantaneous release that immediately impacts the operation of a pipeline segment such that the pressure of the segment cannot be maintained.

A toxic plume:

a band of service fluid or other contaminant (e.g., hydrogen sulfide or smoke) resulting from an occurrence that causes people, including employees, to take protective measures (e.g. muster, shelter-in-place or evacuation) (Source: https://apps.cer-rec.gc.ca/ers)

(Source: http://www.tsb.gc.ca/eng/incidents-occurrence/pipeline/index.html)

When and How to Report a Significant Incident or Significant Pipeline Occurrence

nediately contact the Transportation Safety Board's 24-hour hotline at 819-997-7887.

o, complete the CER/TSB Online Event Reporting System (OERS) electronically at:

os://apps.cer-rec.gc.ca/ers/home/index

Canada Energy Regulator (CER) Definition of an Incident

An "incident" is defined in section 1 of the OPR as an occurrence that results in:

The death of or serious injury to a person.

A significant adverse effect on the environment.

An unintended fire or explosion.

An unintended or uncontained release of low-vapour pressure (LVP) hydrocarbons in excess of 1.5 m³.

An unintended or uncontrolled release of gas or high-vapour pressure (HVP) hydrocarbons.

The operation of a pipeline beyond its design limits as determined under CSA Z662 or CSA Z276 or any operating limits imposed by the Board.

(Source: <u>https://www.cer-rec.gc.ca/bts/ctrg/gnnb/rprtnggdlns/index-eng.html</u>)



When and How to Report an Incident

When the incident is not significant, complete the CER/TSB Online Event Reporting System (OERS) (https://www.cer-rec.gc.ca/bts/ctrg/gnnb/rprtnggdlns/index-eng.html).

If in doubt as to whether the incident is significant or not, proactively and immediately contact the Transportation Safety Board's 24-hour hotline at 819-997-7887.

CER/TSB Online Event Reporting System (OERS)

The CER/TSB Online Event Reporting System (OERS) is intended for use by regulated companies to provide notification to the Canada Energy Regulator (CER) and Transportation Safety Board (TSB) of various events that are defined in regulation including incidents, unauthorized activities, and operations and maintenance activities. Refer to the following link <u>https://apps.cer-rec.gc.ca/ers/home/index</u>.

Reporting Timelines

Section 52 of the OPR requires companies to immediately notify the Board of any incident. Section 3 of the OPR defines Immediately Reportable Events: incidents that harm people or the environment, a rupture, or a toxic plume. The company is required to input the details required by both the TSB and the CER into OERS. The phone notification and the input of information into OERS are required to occur as soon as possible and no later than three hours of the incident being discovered.

For all other events that do not meet any of the definitions in the TSB reporting requirements, companies are not required to phone the TSB Reporting Hotline but must report the event as soon as possible and no later than twenty-four hours after the event was discovered.

Section 52 of the OPR also requires the submission of a Preliminary Incident Report (PIR) and a Detailed Incident Report (DIR) "as soon as is practicable". Generally, companies' initial notification of an incident will satisfy the PIR requirements. The information required for a DIR must be submitted within 12 weeks of reporting an incident. For complex incidents, companies may request an extension for submission of a DIR.

Additional Reporting

During any level of emergency a company will also:

- Refer to the appropriate provincial Notification Matrix to determine what provincial government agencies need to be notified.
- Notify the provincial oil and gas regulator. The CER has Memorandums of Understandings with some provincial oil and gas regulators. As required, the provincial oil and gas regulator may provide response resources (manpower and equipment) from their field centres/offices to support the CER.
- ➤ Refer to the appropriate provincial Incident, Spill, and Release Reporting Requirements for any provincial/territory or Canadian Environmental Protection Act spill and release reporting requirements.

Serious Injury

A serious injury includes an injury that results in:

- > A fracture of any bone, except simple fractures of fingers, toes or the nose.
- > Lacerations that cause severe hemorrhage or nerve, muscle or tendon damage.
- > An injury to an internal organ.
- > Second or third degree burns, or any burns affecting more than 5% of the body surface.
- > A verified exposure to infectious substances or injurious radiation.
- > An injury that is likely to require hospitalization.

(Source: https://laws-lois.justice.gc.ca/eng/regulations/SOR-2014-37/FullText.html)



Canadian Environmental Protection Act (E2) Reporting Requirements

These reporting requirements are set out by Environment Canada; however, notification and reporting of emergencies is through provincial and territorial authorities. Refer to the following link for list of all provincial and territorial authorities: (<u>https://www.canada.ca/en/environment-climate-change/services/environmental-emergencies-program/contacts-province.html</u>)

When an environmental emergency (i.e. a spill of a hazardous substance) occurs that involves a listed substance (as per Schedule 1 – List of Substances <u>http://gazette.gc.ca/rp-pr/p2/2019/2019-03-06/html/sor-dors51-eng.html</u>) at a fixed facility, any person who owns or has the charge, management or control of a substance or causes or contributes to the environmental emergency must take a number of actions as soon as possible. These include:

- Calling the 24-hour telephone services in the respective province or territory where the release occurs
- Taking all measures to respond to the environmental emergency and reduce any impacts on the environment or human health
- Making a reasonable effort to contact any member of the public who may be affected by the environmental emergency
- Submitting a written report through ECCC's Single Window Interface: <u>https://ec.ss.ec.gc.ca</u>

Transport Canada Reporting Requirements - If a spill or anticipated spill occurs during the transportation or handling of a Transportation of Dangerous Goods regulated products where the volume exceeds those specified at https://www.tc.gc.ca/eng/canutec/emergencies-reporting-411.htm, the spill must be immediately reported to the local police and the provincial or territorial authority. Refer to the following link for a list of all provincial and territorial authorities: (https://www.tc.gc.ca/eng/canutec/emergencies-reporting-411.htm, the spill must be immediately reported to the local police and the provincial or territorial authority. Refer to the following link for a list of all provincial and territorial authorities: (https://www.tc.gc.ca/eng/canutec/emergencies-reporting-411.htm, the spill must be immediately reported to the local police and the provincial or territorial authority. Refer to the following link for a list of all provincial and territorial authorities: (https://www.tc.gc.ca/eng/canutec/emergencies-reporting-411.htm.

Department of Fisheries and Oceans Canada (DFO) Reporting Requirements - If there is a release into a water body of any substance hazardous to fish, contact DFO Central and Arctic Region (only if fish bearing water body) at 204-983-5000. In most cases where the release enters a waterbody, the provincial regulator will notify DFO.



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8.2 Government Involvement

Government agencies will contribute valuable support to Plains Midstream Canada (PMC) during an emergency by providing advice, resources and local information. The extent of the regulatory agencies and other government support will vary depending on the severity of the incident and jurisdiction. In the event of criminal activities or incident in an office setting, support and response coordination may be taken over by local authorities.

While there are procedures and responsibilities that are specific to each provincial and federal regulatory body, there are common government agency tasks that occur regardless of location:

- Respond to and assess the incident.
- Determine the appropriate agency responses to the incident.
- Ensure the lead agency has been notified.
- Activate any agency-specific municipal emergency plans (MEP).
- Activate agency-specific incident facilities (Ex. ICP, MEOC, etc.), if required.
- Activate field staff as needed.
- Activate the emergency public warning system to alert people to life threatening hazards, as required.
- Deploy representatives to Provincial Operations Centre (POC) if activated and/or required.
- Deploy personnel to the Incident Command Post (ICP) and/or Emergency Operations Centre (EOC) if requested and/or appropriate with all appropriate equipment as needed.
 - o As appropriate, may be a member of unified command.
 - Fulfill a role within the Incident Management Team, as necessary.
- If necessary, declare a local State of Emergency.
- If the hazard area extends beyond the Emergency Planning Zone (EPZ), the county will coordinate evacuation of the public as well as reception centre establishment and maintenance with the industrial operator.
- Cooperate with other agencies to increase support to the response.
- Participate in any public-at-large communication, as applicable.
- Coordinate news releases with the licensee, if required.
- Inform Emergency Management & Fire Safety and the public when the emergency is over.

8.2.1 General Communication Expectations

To ensure all responders – company and government - are able to effectively coordinate actions it is critical for communication to be clear, concise, and timely. Initial notifications to first responders (911) and the lead regulatory body must occur immediately once the incident has been verified. Additional notifications to other lead agencies, supporting agencies and local authorities must be made once the ERP has been activated and additional incident details identified. Required emergency government agency notifications are outlined within each respective provincial government matrix.

The lead regulatory body will be responsible for the industry regulation and oversight; this will be dependent on the location and type of incident, as well as the company asset impacted. The lead and supporting agencies may be engaged by the lead regulatory agency; however, it is PMC policy to make all additional notifications to ensure that the appropriate agencies have been contacted. All federal and/or provincial requirements, agencies, roles and responsibilities, applicable to the ERP are further outlined within the respective subsections in this section.



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8.3 Government Notification Matrix

8.3.1 **Ontario Government Notification Matrix**

Notification Matrix - Ontario																											
		Initial spond		Lead Agencies and Priority Contacts																							
Agencies or Resource	mbulance Services	ocal Fire Department	ocal Police		CER - Canada Energy Regulator	SB - Transportation Safety Board	EMO - Emergency Management Ontario	Ministry of the Environment, Conservation and Parks - Spills	ocal Authorities	CANUTEC	DFO - Department of Fisheries and Oceans	IAV CANADA	Ainistry of Labour	SSA - Technical Standards and Safety Authority	ESA - Electrical Safety Authority	ECCC - Environment & Climate Change Canada	Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry	linistry of Transportation	linistry of Health and Long-term Care lealth Unit	VSIB - Workplace Safety and nsurance Board	ERAC - Emergency Response Assistance Canada	CHEMTREC	0GC - Indian Oil & Gas Canada	PEAS - Pollution Emergency Alerting System (Michigan)	DEQ - Depatment of Environmental Quality (Michigan)	f Fire Services (N	NRC - National Response Centre (US Federal)
Sour Hydrocarbon or HVP Release	4	a	~	b	c	~	₩ O	d	*	e	1	g	h	μs		I I	j	ĸ	1	m	ШĄ	0	p	م م	r	s	t
LVP Hydrocarbon Liquid Release		а	~	b	с	~	~	d	*	e		g	h			i	j	k	Т	m			р	q	r	s	t
Toxic Material Release		a	~	b	с	~	~	d	*	e		g	h			I.	j	k	T	m			p	q	r	s	t.
Sweet Hydrocarbon Release		a	1	b	c	1	1	d	*	e		g	h			i.	j	k	Т	m			p	q	r	s	t
Rail or Trucking Incident		a	~	b	с	~	~	d	1	e		g	h			i	j	k	Т	m	n	0	p	q	r .	s	(t)
Pressure Vessel or Piping Incident				b	с	~	~	d	*	e	f	g	h	1			j	k	Т	m				q	r	s	t
Fire / Explosion / B.L.E.V.E.		~	~	b	с	1	~	d	1	e		g	h			i.	i	k	Т	m	n		p	q	r	s	t
Operation of Facilities Beyond Designed Limits				b	c	1		d	*	e		g	h				j.	k	Т	m							
Serious Injury or Death (Including Vehicle Accidents)	~		~	b	с	1							~					k	T	m						s	t
Motor Vehicle Accident (No Injuries)			~															k									
Missing Person			~																								
Electrical Incident				b	с	1									~				Т	m							
Security Incident (Bomb Threat, Terrorism, Civil Disturbance)			~	b	с	1	~	d	~	e		g					J	k	Т	m							
On-Site Incident Involving E2 Regulated Substance		а	~	b	с	1	~	d	*	e	f	g	h			i	J	k	Т	m			р	q	r	s	t
✓ Compulsory contact	a v b c v q r g n i j k i m p q r s t NOTE: Anytime the company contacts the public, in addition to the local authorities (counties/municipalities); it should also consider contacting the Local Police. Police. <t< td=""></t<>																										

Contact the local fire department if there is a potential for secondary fires. Industry fire fighters should be mobilized to fight industrial hydrocarbon fires

a) Contact the local fire department if there is a potential for secondary fires. Industry fire fighters should be mobilized to fight industrial hydrocarbon fires.
 b) The Ontaic Energy Board (OEB) has no 24-hour emergency reporting protocol. Contact the Ministry of Community Safety and Correctional Services – Emergency Management Ontario (EMO), Ministry of Environment and Climate Change - Spills Action Centre, and the Ontario Ministry of Natural Resources and Forestry.
 c) CER is a compulsory contract only for emergencies and near misses involving CER regulated sites and inter-provincial pipelines. Contact the CER through the TSB 24-hour emergency line for incidents occurring at operations regulated by the CER. Also complete the Online Event Reporting System (OERS) (electronically at https://apps.cer-rec.gc.ca/ers).
 d) Contact the Canadian Transport Emergency centre (CANUTEC) when a highway is shut down, there is an injury or fatality, there is lost, stolen or unlawfully interfered with dangerous goods (except Class 9), the incident substrained to Ministry of Line (CANUTEC) when a highway is shut down, there is an injury or fatality, there is lost, stolen or unlawfully interfered with dangerous goods (except Class 9), the incident substrained to MINCCO between the observation and the province of the observation of the contract on the observation of the observation of the observation of the contract on the observation of the observating of the observation of the observation of the observation of

b) contact the contact intersection of the section of

Contact NAV CANADA if a Notice to Airmen (NOTAM) is required.

g) h)

(g) Contact NAV CHAVADA is a Notice to Arithmen (VCHAW) is required.
(h) Contact NAV CHAVADA is a Notice to Arithmen (VCHAW) is required.
(b) Contact Contact Ministry of Labour if there is a potential for or actual serious injury to or death of workers (workplace-related issues).
(i) Contact CCC for incidents involving PCBs or any splits on First Nations Lands, in national parks, into river or lake systems having fish, or onto railway right-of-way. Canadian Environmental Protection Act (CEPA) Reporting Requirements occur through ECCC. Refer to the CEPA Incident, Spill, and Release Reporting Requirements.

Requirements occur infolding ECCC. Refer to the CEPA incident, Splin, and Release Reporting Requirements.
 Contact Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry for any incident that could affect forestry lands.
 k) Contact Ontario Ministry of Transportation if the incident affects any highway. Rural roads are the responsibility of the local authority.
 Contact Ontario Ministry of Health and Long-term Care if the incident could affect the health of the public.
 Contact VISB if the incident involves an injury or detacted issues).
 Emergency Response Assistance Canada will only respond to incidents that involve the following UN numbers: 1075 (Propane, Butane, etc.) and 1010 (Butadiene); with a tank storage capacity of 450 litres or greater.

Advisory assistance will be provided to incidents involving tank storage capacities less than 450 litres. o) Plains has a contract in place with CHEMTREC, a 24/7/365 emergency call center that provides immediate information and assistance in the event of a chemical or hazardous material incident related to the transportation of dependences code.

 o) Plains has a contract in place with CHEMTREC, a 24/7/356 emergency call center that provides immediate information and assistance in the event of a chemical or hazardous material incident related to the transportation of dangerous goods.
 p) Indian Oil & Gas (IOGC), the First Nation and the provincial authority must be notified immediately in the event of any health or environment-threatening emergency or off-lease spills on First Nation reserve lands. On-lease spills greater than 1m3 must be reported to IOGC immediately.
 q) Contact the Michigan Pollution Emergency Alerting System to report spills, releases, or other environmental emergencies involving: air, land, water, groundwater, wetlands, dams landfills, hazardous or radioactive materials, mines, public drinking water, oil and gas wells and nuclear power plants.
 r) Contact the Michigan Bureau of Fire Services to report spills or releases of petroleum or hazardous substances on land or into water.
 s) Contact the Michigan Bureau of Fire Services to report spills or releases of petroleum or hazardous substances on land or into water.
 t) The National Response Center (NRC) is the designated federal point of contact for reporting all oil, chemical, radiological, biological and etiological discharges into the environment. Immediate notice to the NRC is required for any release that impacts water. Immediate notice to the NRC is required for any release. 4) An emergency shutdown of an LNG or Underground Natural Gas Storage Facility. 5) Any impact to water, 6) Anything else the operator deems as a direct result of the following as direct result of the hazardous wateri or avastel 1) Destand or any transportation nicident that results in any of the flight being altered. 5) Fire, breakage or spillazedino. 2) The general public being evacuated for more than 1 hour. 3) A major transportation incident that results in any of the flight being altered. 5) Fire, breakage or spillazed for any ransp Insoptialization. 2) The general public being evacuated for more than 1 hour. 3) A major transportation aftery or tacility closed for more than 1 hour. 4) The flight pattern or routine of an ancraft being altered. 5) Fire, breakage or spillage of a radioactive or infectious substances (b) The release of 450 litres or 450 kg of a marine pollutant. 7) Anything else the carrier deems as a continuing danger to life. CERCLA hazardous busbances (b) The release of 450 litres or 450 kg of a marine pollutant. 7) Anything else the carrier deems as a continuing danger to life. CERCLA hazardous busbances (b) the first or 450 kg of a marine pollutant. 7) Anything else the carrier deems as a continuing danger to life. CERCLA hazardous busbances (b) the release of 450 litres or 450 kg of a marine pollutant. The released into the environment (not contained in a building), in quantities equal to or greater than their Reportable Quantities (RQs) must be reported to the NRC as per 40 CFR part 302. Note release of CERCLA hazardous substances must also be reported to the SERC, LEPC & TERC. The NRC notifies the pre-designated On-Scene Coordinator from the EPA (incidents impacting inland areas & waters) or U.S. Coastguard (incidents impacting coastal waters & great lakes) who will direct the federal government's response to the incident. If you cannot contact the NRC you can contact the EPA or US Coast Guard.



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8.4 Local Section

8.4.1 Emergency Services

(Local police, fire, ambulance and 911 call centre)

- Respond to and assess emergency incident.
- Participate in unified command, as appropriate.
- Communicate to municipal Emergency Operations Centre(s) and provide site reps as required.
- Assist with fire protection outside of company property, off-site and / or outside the EPZ where trained personnel are available.
- Provide emergency medical assistance, as required.
- Provide timely news releases, if required.
- RCMP/Local Police are involved with any incidents entailing traffic accidents, road closures, fatalities or criminal activity. The following support will:
 - o Assists with isolating and securing the incident site, including traffic and crowd control.
 - o Aids with evacuations.
 - o Manages the closure of major highways.
 - o Maintains law and order.

Note: Professional oilfield fire fighters should manage extensive fires or uncontrolled facility fires.



8.4.2 Local Authorities

Refer to the following Local Authorities for area specific mutual understandings regarding the specific roles and responsibilities for each local authority, if applicable.

The local authority will usually participate in any emergency that impacts or threatens land or residents outside the confines of company property.

Responsibilities

- Implements the rural municipality disaster or emergency plan.
- Provides local knowledge about conditions, resources (manpower and equipment) and the community.
- May assist with the establishment and administration of a Reception Centre if required.
- Ensures local emergency services are available to assist the emergency response team.



8.4.2.1 City of Sarnia



ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number: September 21, 2023 **City of Sarnia** 255 Christina St N, Sarnia, ON N7T 7N2 519-328-5009 519-332-3995 – CAER Fax Line in 911 Dispatch www.sarnia.ca 519-344-8861 Police Services – "0" routes directly to emergency switchboard

NOLLO.

- Confirmation that your municipality will carry out the following duties to the best of its ability:
- Direct and control the Local Authority's emergency response in accordance with your Municipal Emergency Response Plan (MEP) / Community Emergency Management Program.
- Ensure emergency services and resources are available in accordance with the Local Authority's policies.
- Provide support in accordance with the Local Authority's policies.
- Assist with fire protection in accordance with the Local Authority's policies.
- If required, activates a Municipal Emergency Coordination Centre / Incident Command Post.
- If required, may dispatch representative(s) to Government and Plains Midstream Canada Emergency Operation Centre(s).
- If deemed necessary, may declare a State of Local Emergency (SOLE).

- If requested and resources available, may assist with set up and maintenance of roadblocks until alternative personnel can be provided.
- Population ± 71,500
- Utilizes Sarnia-Lambton Alerts and 11 municipal sirens for notification. Alert Ready mass notification
 may be initiated provincially.
- Member of CAER (Community Awareness Emergency Response) organization, which has a 24-hour number that residents can call to hear current information about non-routine industry activity.
- Communication with emergency officials on U.S. side of border.
- Reception Centres will be chosen at time of incident depending on wind direction and evacuation route. Evacuation trailers containing equipment available.
- Prefer ERP in electronic format.



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8.4.2.2 City of Windsor

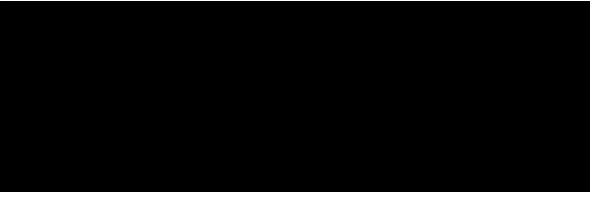


ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number:

August 15, 2023 **City of Windsor** 815 Goyeau Street, Windsor, ON N9A 1H7 519-253-3016 519-255-6832 www.citywindsor.ca 519-255-6478 or 519-258-4444 Emergency Pager

EMERGENCY MANAGEMENT CONTACT INFORMATION



ROLES:

Confirmation that your municipality will carry out the following duties to the best of its ability:

- Direct and control the Local Authority's emergency response in accordance with your Municipal Emergency Response Plan (MEP) / Community Emergency Management Program.
- Ensure emergency services and resources are available in accordance with the Local Authority's policies.
- · Provide support in accordance with the Local Authority's policies.
- Assist with fire protection in accordance with the Local Authority's policies.
- If required, activates a Municipal Emergency Coordination Centre / Incident Command Post.
- If required, may dispatch representative(s) to Government and Plains Midstream Canada Emergency Operation Centre(s).
- If deemed necessary, may declare an emergency under the EMCPA, R.S.O. 1990, c. E.9.

- If requested and resources available, may assist with set up and maintenance of roadblocks until alternative personnel can be provided.
- Population ± 225,000.
- Level 3 HazMat Team.
- Mobile Incident Command Post shared with Windsor Police; 8 portable air monitoring stations, fire trucks equipped with thermal and infra-red imaging cameras, roadblock equipment, access to intrinsically safe drone.
- Mutual Aid Agreement exists between each individual municipality in Essex County and the City of Windsor. Stephen Laforet is Essex County Mutual Aid Coordinator. Windsor Fire Rescue Services Deputy Chief James Waffle and Lakeshore Fire Chief Don Williamson are alternate Mutual Aid Coordinators. County of Essex contact Dan Metcalfe, Emergency Measures Coordinator 519-776-6441 Ext. 1243 or 519-791-1917 dmetcalfe@countyofessex.ca.



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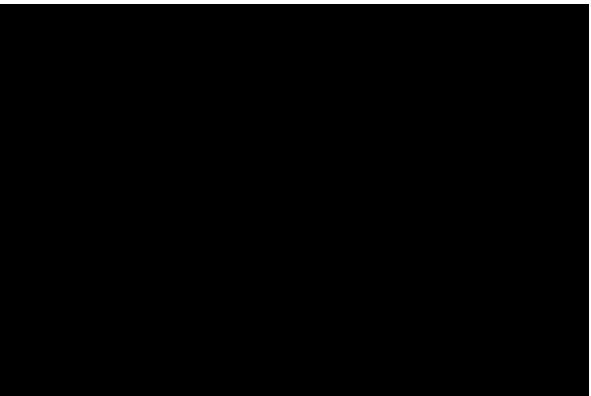
8.4.2.3 County of Essex



ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number: September 18, 2023 County of Essex 360 Fairview Avenue W, Essex, ON N8M 1Y6 519-776-6441 519-776-4455 www.countyofessex.ca

EMERGENCY MANAGEMENT CONTACT INFORMATION



ROLES:

Confirmation that your municipality will carry out the following duties to the best of its ability:

- Direct and control the Local Authority's emergency response in accordance with your Municipal Emergency Plan (MEP) / Community Emergency Management Program.
- Provide Emergency Medical Services and County of Essex resources where available to accordance with the Local Authority's policies.
- Provide support where able to in accordance with the Local Authority's policies.



Roles & Responsibilities County of Essex Page 2

- If required and available, support a Municipal Emergency Coordination Centre / Incident Command Post.
- If required and available, may dispatch representative(s) to Plains Midstream Canada Emergency Operation Centre(s).
- If deemed necessary, may declare a State of Local Emergency (SOLE).

- Upper Tier Municipality, would assist Towns of LaSalle, Tecumseh, Lakeshore, and the City of Windsor
- Essex County consists of 7 municipalities of which each has their own municipal fire service. The 7 fire services have a Mutual Aid Plan and Program Agreement amongst each other and the City of Windsor Fire Services for equipment and people resource sharing which is all coordinated through the Windsor Fire Chief if a significant event occurs.
- Dan Metcalfe is the Emergency Measures Coordinator for the upper tier (County of Essex) which is not a part of the fire emergency response but is a resource for the 7 municipal emergency planners if required.
- May open EOC if three or more municipalities are affected by an emergency and/or declare an emergency to the PEOC for the Province of Ontario, or at the request of a lower tier municipality or as a regional EOC if OPP (Ontario Provincial Police) made a request.
- County of Essex Fire Coordinator is Steven Laforet, Fire Chief, Windsor Fire & Rescue.
- County of Essex has a flood plan and a pandemic plan in place.
- County of Essex utilizes various notification systems for communication and for disaster / road detour / GIS updates. There is an option to notify the public and/or municipalities and respective departments, along with municipal Emergency First Responders/CEMCs.
- Prefer ERP in electronic format.



8.4.2.4 County of Lambton



ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number:

July 29, 2023 **County of Lambton** 789 Broadway Street, Box 3000, Wyoming, ON N0N 1T0 519-845-0801 519-845-3160 www.lambtononline.ca

EMERGENCY MANAGEMENT CONTACT INFORMATION



Confirmation that your municipality will carry out the following duties to the best of its ability:

- Direct and control the Local Authority's emergency response in accordance with your Municipal
- Emergency Response Plan (MEP) / Community Emergency Management Program.
- Ensure emergency services and resources are available in accordance with the Local Authority's policies.
- Provide support in accordance with the Local Authority's policies.
- If required, activates a Municipal Emergency Operations Centre / Incident Command Post.
- Provision of Land ambulance service in accordance with the Local Authority's policies.
- If required, may dispatch representative(s) to Government and Plains Midstream Canada Emergency Operation Centre(s).
- If deemed necessary, may declare a "state of emergency" under the Emergency Management and Civil Protection Act (EMCPA).

- Upper Tier Municipality, would support, assist, and coordinate with local municipalities as required.
- Population ± 126,000
- County of Lambton oversees 9 Emergency Medical Service locations, Lambton Public Health, a County road network, social services and building services among other program areas.
- Utilizes Sarnia-Lambton Alerts mass notification system; access to provincial "Alert Ready" notification.
- Activation of Ontario 211 for call-taking services.
- · Provision of emergency financial assistance to residents affected by a disaster.
- Prefer ERP in electronic format.



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8.4.2.5 Municipality of Chatham-Kent

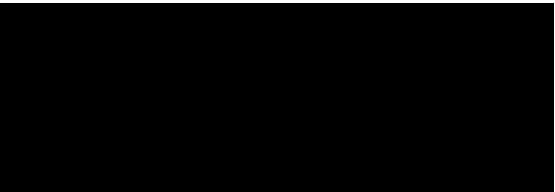


ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number:

August 21, 2023 **Municipality of Chatham-Kent** 5 Second Street, Chatham, ON M7M 5X2 519-436-3270 519-352-9620 www.chatham-kent.ca

EMERGENCY MANAGEMENT CONTACT INFORMATION



ROLES:

Confirmation that your municipality will carry out the following duties to the best of its ability:

- Direct and control the Local Authority's emergency response in accordance with your Municipal Emergency Plan (MEP) / Community Emergency Management Program.
- Ensure emergency services and resources are available in accordance with the Local Authority's policies.
- Provide support in accordance with the Local Authority's policies.
- Assist with fire protection in accordance with the Local Authority's policies.
- If required, activates a Municipal Emergency Coordination Centre / Incident Command Post.
- If required, may dispatch representative(s) to Government and Plains Midstream Canada Emergency Operation Centre(s).
- If deemed necessary, may declare a State of Local Emergency (SOLE).

- All-hazards community safety department including Fire Services, Emergency Medical Services and Emergency Management.
- Specialty teams including dive, high angle rescue and ice/water rescue.
- Two full time, 1 composite and 16 volunteer fire stations.
- Municipal offices in Blenheim, Chatham, Dresden, Ridgetown, Tilbury and Wallaceburg.
- No call-out system to notify residents of emergencies. Use media releases through local radio stations and when necessary, conduct door-to-door visits.
- Population ±106,000.
- Prefer ERP in electronic format.



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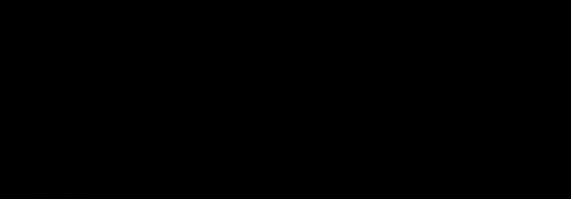
8.4.2.6 Municipality of Lakeshore



ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number: August 9, 2023 **Municipality of Lakeshore** 419 Notre Dame Street, Belle River ON NOR 1A0 519-728-0550 (Fire Headquarters) 519-728-2545 www.lakeshore.ca 519-255-6478 Windsor Dispatch

EMERGENCY MANAGEMENT CONTACT INFORMATION



ROLES:

Confirmation that your municipality will carry out the following duties to the best of its ability:

- Direct and control the Local Authority's emergency response in accordance with your Municipal Emergency Response Plan (MEP) / Community Emergency Management Program.
- Ensure emergency services and resources are available in accordance with the Local Authority's policies.
- Provide support in accordance with the Local Authority's policies.
- Assist with fire protection in accordance with the Local Authority's policies.
- If required, activates a Municipal Emergency Coordination Centre / Incident Command Post.
- If required, may dispatch representative(s) to Government and Plains Midstream Canada Emergency Operation Centre(s).
- If deemed necessary, may declare a State of Local Emergency (SOLE).

- If requested and resources available, may assist with set up and maintenance of roadblocks until alternative personnel can be provided.
- Population ± 43,000.
- Designated EOC: Lakeshore Town Hall.
- Designated reception centre: Atlas Tube Centre.



Roles & Responsibilities Municipality of Lakeshore Page 2

- Five Fire Stations each consisting of a District Chief, 3 Captains and ± 16 Fire Fighters. Equipment includes 10 fire pumps, 2 support vehicles, shore-based ice water rescues up to 300 feet offshore and awareness level hazmat support.
- Essex County consists of 7 municipalities of which each has their own municipal fire service. The 7 fire services have a Mutual Aid Plan and Program Agreement amongst each other and the City of Windsor Fire Services for equipment and people resource sharing which is all coordinated through the Windsor Fire Chief if a significant event occurs.
- Dan Metcalfe is the Emergency Measures Coordinator 519-776-6441 Ext. 1243, dmetcalfe@countyofessex.ca for the upper tier (County of Essex) which is not a part of the fire emergency response but a resource for the 7 municipal emergency planners if required.
- No mass notification system; access to the provincial alerting system "Alert Ready" depending on emergency criteria.
- Prefer ERP in electronic format.



8.4.2.7 St.Clair Township



ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number: September 6, 2023 **St. Clair Township** 1155 Emily Street, Mooretown, ON N0N 1M0 519-481-0111 www.stclairtownship.ca

519-481-0111 - listen to message and follow prompts for emergency

EMERGENCY MANAGEMENT CONTACT INFORMATION



ROLES:

Confirmation that your municipality will carry out the following duties to the best of its ability:

- Direct and control St. Clair Township emergency response in accordance with your Municipal Emergency Response Plan (MEP) / Community Emergency Management Program.
- Ensure emergency services and resources are available in accordance with St. Clair Township policies.
- Provide support in accordance with St. Clair Township policies.
- Provide fire protection in accordance with St. Clair Township policies.
- If required, activates a Municipal Emergency Coordination Centre / Incident Command Post.
- If required, may dispatch representative(s) to Government and Plains Midstream Canada Emergency
- Operation Centre(s).
- If deemed necessary, may declare a State of Local Emergency (SOLE).



Roles & Responsibilities St. Clair Township Page 2

- If requested and resources available, may assist with set up and maintenance of roadblocks until alternative personnel can be provided.
- Population ± 15,000
- Access to a Level 3 HazMat Team.
- Response equipment includes 4 roadblock trailers, mobile command unit, UAV (drone) with thermal imaging capabilities, 2 industrial articulating platform aerial apparatus, 7 pumpers and 6 rescue trucks.
- Chief Boyes is the Fire Chief and Director of Emergency Services.
- Designated Reception Centres: Wilkesport Community Centre, Courtright Community Hall, Brigden Fair Grounds Exhibition Hall, Corunna Legion, Sombra Community Centre, and Port Lambton Community Centre.
- Mass notification provided by "Sarnia-Lambton Alerts", siren system available but may be phased out. Provincial alerting system "Alert Ready" may be accessed depending on emergency criteria.
- Members of the local CAER industrial Mutual Aid group with a large inventory of industrial fire
 equipment.
- Prefer ERP in electronic format.



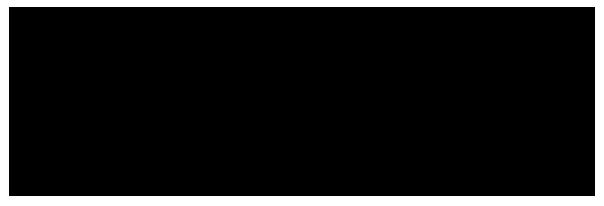
8.4.2.8 Town of LaSalle



ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number: September 8, 2023 **Town of LaSalle** 1900 Normandy Street, LaSalle ON N9H 1P8 519-966-0744 519-966-9346 www.lasalle.ca 519-966-1711

EMERGENCY MANAGEMENT CONTACT INFORMATION



ROLES:

Confirmation that your municipality will carry out the following duties to the best of its ability:

- Direct and control the Local Authority's emergency response in accordance with your Municipal Emergency Response Plan (MEP) / Community Emergency Management Program.
- Ensure emergency services and resources are available in accordance with the Local Authority's policies.
- Provide support in accordance with the Local Authority's policies.
- Assist with fire protection in accordance with the Local Authority's policies.
- If required, activates a Municipal Emergency Coordination Centre / Incident Command Post.
- If required, may dispatch representative(s) to Government and Plains Midstream Canada Emergency Operation Centre(s).
- If deemed necessary, may declare a State of Local Emergency (SOLE).

- If requested and resources available, may assist with set up and maintenance of roadblocks until alternative personnel can be provided.
- Population ± 30,000.
- Designated EOC: LaSalle Civic Centre.
- Designated reception centre: Vollmer Complex.
- Mutual Aid Agreement with the County of Essex. County of Essex contact Dan Metcalfe, Emergency Measures Coordinator 519-776-6441 Ext. 1243, dmetcalfe@countyofessex.ca.



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8.4.2.9 Town of Tecumseh



ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number:

July 29, 2023 **Town of Tecumseh** 917 Lesperance Road, Tecumseh ON N8N 1W9 519-979-4041 519-979-5881 www.tecumseh.ca 519-255-6478 Windsor Dispatch

EMERGENCY MANAGEMENT CONTACT INFORMATION



ROLES:

Confirmation that your municipality will carry out the following duties to the best of its ability:

- Direct and control the Local Authority's emergency response in accordance with your Municipal Emergency Response Plan (MEP) / Community Emergency Management Program.
- Ensure emergency services and resources are available in accordance with the Local Authority's policies.
- Provide support in accordance with the Local Authority's policies.
- Assist with fire protection in accordance with the Local Authority's policies.
- If required, activates a Municipal Emergency Operation Centre / Incident Command Post.
- If required, may dispatch representative(s) to Government and Plains Midstream Canada Emergency Operation Centre(s).
- If deemed necessary, may declare a State of Local Emergency (SOLE).

- If requested and resources available, may assist with set up and maintenance of roadblocks until alternative personnel can be provided.
- Population ± 24,000
- Level 1 HazMat response.
- Designated reception centres: Essex County Civic Centre, Tecumseh Arena, and Learnington Retirement Residence.
- Mutual Aid Agreement with the County of Essex. County of Essex contact Dan Metcalfe, Emergency Measures Coordinator 519-776-6441 Ext. 1243, dmetcalfe@countyofessex.ca.



Roles & Responsibilities Town of Tecumseh Page 2

- Essex County consists of 7 municipalities of which each has their own municipal fire service. The 7 fire services have a Mutual Aid Plan and Program Agreement amongst each other and the City of Windsor Fire Services for equipment and people resource sharing which is all coordinated through the Windsor Fire Chief if a significant event occurs.
- Dan Metcalfe is the Emergency Measures Coordinator for the upper tier (County of Essex) which is not a part of the fire emergency response but a resource for the 7 municipal emergency planners if required.
- Mass notification provided by Everbridge notification system. The Provincial alerting system "Alert Ready" may be accessed depending on emergency criteria.
- Prefer ERP in electronic format.





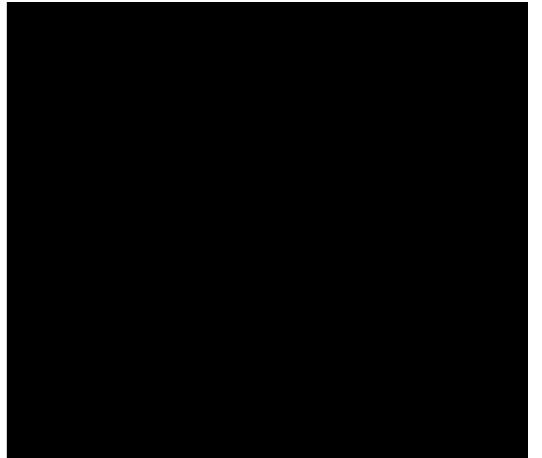
8.4.2.10 Windsor Port Authority



ROLES AND RESPONSIBILITIES

Date: Local Authority: Mailing Address: Main Office Number: Fax Number: Website: 24 Hour Number: August 14, 2023 Windsor Port Authority 3190 Sandwich Street, Windsor, ON N9C 1A6 519-258-5741 Ext. 211 519-562-3032 www.portwindsor.com Windsor Police Services Dispatch 519-258-6111

EMERGENCY MANAGEMENT CONTACT INFORMATION







Roles & Responsibilities Windsor Port Authority Page 2

ROLES and RESOURCES:

- Federal Regulator for the Eastern Area Pipeline in water, first response and environmental assistance along shoreline.
- Windsor Police, Ontario Provincial Police (OPP) and Windsor Fire and Rescue Services would be
 primary responders, assistance would be provided by the Windsor Port Authority. Windsor Police may
 provide traffic control and if necessary, evacuation. OPP would be called to assist if required; on water
 OPP may assist with closure or traffic control on the river.
- If required, may dispatch representative(s) to Government and Plains Midstream Canada Emergency Operation Centre(s).
- Response coordinated with the County of Essex.
- City of Windsor Emergency Management Coordinator is Chief Steve Laforet, Windsor Fire and Rescue Services 519-999-8141 slaforet@citywindsor.ca.
- Windsor Storage facility backs onto the Major FA Tilston Armoury & Police Training Centre. This is the home base for the Windsor Regiment, the Essex Scottish Regiment and the Service Battalion related to the Military. It is also the home of the Windsor Police Service Training Branch. There is a significant firearms and explosives range on site.
- The new Gordie Howe International Bridge will be alongside the pipeline and will have approximately 2,000 people working on site from 2021 to 2025. This will be a high-volume vehicle traffic bridge located beside the pipeline and Windsor Storage Facility. Hunter Kersey is the Director of Security for the bridge hkersey@bnacapg.comoffice 226-759-2392.
- Prefer ERP in electronic format.



8.4.2.11 Aamjiwnaang First Nations

For information regarding Aamjiwnaang First Nation roles and responsibilities, contact Plains Emergency Management



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8.5 Provincial Section

8.5.1 Emergency Management

8.5.1.1 Emergency Management in Ontario

In Ontario, the Ministry of the Solicitor General – Emergency Management Ontario (EMO) is the lead agency for the province on public safety and security, maintaining the physical and economic security of Ontario, by coordinating public safety initiatives among municipal, fire and emergency services organizations within and outside of Ontario.



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8.5.2 Worker Serious Injuries or Fatality

8.5.2.1 Ontario Worker Serious Injuries or Fatality

If workplace injuries or illnesses occur, the employer constructor, or mine or mining plant owner have the following duties to notify certain people:

- Where a person is killed or critically injured from any cause at a workplace, the constructor, if any, and the employer shall notify an inspector, and the committee, health and safety representative and trade union, if any, immediately of the occurrence by telephone or other direct means and the employer shall, within forty-eight hours after the occurrence, send to a Director and to the committee, health and safety representative and trade union, if any a written report of the circumstances of the occurrence containing such information and particulars as the regulations prescribe. [section 51(1)]
- If a person is disabled from performing his or her usual work or requires medical attention because of an accident, explosion, fire or incident of workplace violence at a workplace, but no person dies or is critically injured because of that occurrence, the employer shall, within four days of the occurrence, give written notice of the occurrence containing the prescribed information and particulars to the following:
 - The committee, the health and safety representative and the trade union, if any.
 - The Director, if an inspector requires notification of the Director. [section 52(1)]
- If an employer is advised by or on behalf of a worker that the worker has an occupational illness or that a claim in respect of an occupational illness has been filed with the Workplace Safety and Insurance Board by or on behalf of the worker, the employer shall give notice in writing, within four days of being so advised, to a Director, to the committee or a health and safety representative and to the trade union, if any, containing such information and particulars as are prescribed. [section 52(2)]
- If an accident, premature or unexpected explosion, fire, flood or inrush of water, failure of any
 equipment, machine, device, article or thing, cave-in, subsidence, rockburst, or other prescribed
 incident occurs at a project site, mine, mining plant or other prescribed location, the person
 determined under subsection (2) shall, within two days after the occurrence, give notice in
 writing with the prescribed information and particulars,
 - o to the committee, health and safety representative and trade union, if any; and
 - to a Director, unless a report under section 51 or a notice under section 52 has already been given to a Director. [section 53(1)]



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8.5.3 Provincial Government Roles - Ontario

Government agencies contribute valuable support to a company during an incident by providing advice, resources (manpower and equipment) and local information. In order to avoid conflicts over authority and response priorities, company representatives need to work as a team with involved government agencies. Emergency response should achieve an integrated approach that protects the responders, the public and the environment. The extent of government support depends on the severity of the incident and jurisdiction.

Note: Names of government agencies frequently change.

8.5.3.1 Petroleum Regulatory Agency – Ontario Energy Board (OEB)

With respect to natural gas, the Ontario Energy Board (OEB) approves natural gas rates, issues gas marketer licenses, approves pipeline construction, approves designation of gas storage facilities, reviews applications for well drilling and provides recommendations to the Minister of Northern Development, Mines, Natural Resources and Forestry.

8.5.3.2 Ontario Pipeline Coordinating Committee

The Ontario Pipeline Coordinating Committee coordinates the Ontario government's review of natural gas facility projects in Ontario that require approval from the Ontario Energy Board (OEB). Its goal is to minimize negative environmental impacts that could arise from these projects by reviewing environmental assessments and routing reports prepared by the applicants before they apply to the Board to have projects approved.

The committee is made up of government ministries and agencies that have a role in reviewing natural gas transmission and distribution facility projects and is chaired by a staff member from the Ontario Energy Board (OEB).

8.5.3.3 Ministry of the Solicitor General – Emergency Management Ontario (EMO)

During an emergency, Emergency Management Ontario (EMO) supports the community response and coordinates provincial activities as required.

8.5.3.4 Ontario Ministry of the Environment, Conservation and Parks

The Ministry of the Environment, Conservation and Parks is responsible for promoting clean and safe air, land, and water to ensure healthy communities, ecological protection and sustainable development, as well as enforcing compliance with environmental laws.

8.5.3.5 Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry

Oversees Ontario's mineral sector, promotes economic development in Northern Ontario and the resource sector, protects biodiversity and supports outdoor recreation.

8.5.3.6 Ontario Ministry of Transportation

The Ministry of Transportation strives to be a world leader in moving people and goods safely, efficiently and sustainably to support a globally competitive economy and a high quality of life.



8.5.3.7 Ministry of Health and Long-Term Care

The Ministry of Health and Long-Term Care is working to establish a sustainable public health care system in Ontario and is based on helping people stay healthy, delivering good care when people need it, and protecting the health system for future generations.

8.5.3.8 Ministry of Labour, Immigration Training and Skills Development

The Ministry of Labour, Immigration Training and Skills Development works to prevent workplace injuries and illnesses, promoting and enforcing employment standards, helping settle workplace disputes and collective agreements, supporting apprenticeships, the skilled trades, industry training and employment services in Ontario.

8.5.3.9 Technical Standards and Safety Authority (TSSA)

Technical Standards and Safety Authority (TSSA) promotes and enforces public safety in three key sectors: Boilers and Pressure Vessels and Operating Engineers, Elevating Devices, Amusement Devices and Ski Lifts, Fuels. The Boilers and Pressure Vessels (BPV) Safety Program regulates all pressure-retaining components manufactured or used in Ontario to ensure boilers, pressure vessels and piping systems conform to the Technical Standards and Safety Act, 2000.

8.5.3.10 Electrical Safety Authority (ESA)

The Electrical Safety Authority (ESA) is the administrative authority mandated by the Government of Ontario to enhance public electrical safety in the province.

8.5.3.11 Workplace Safety and Insurance Board (WSIB)

The Workplace Safety and Insurance Board (WSIB) is an independent trust agency that administers compensation and provides no-fault collective liability insurance and access to industry-specific health and safety information.

8.5.3.12 Home and Community Care Support Services

Formerly Local Health Integration Networks (LHINS), Home and Community Care Support Services has been condensed into 5 regions. They are responsible for ensuring the health services funded under their structure can continue to deliver health services during an emergency. They engage health organizations – also known as transfer payment agencies – to coordinate emergency response activities and tasks. These organizations include public and private hospitals, Community Care Access Centres (CCACs), community support service organizations, mental health and addiction agencies, community health centres (CHCs) and long-term care homes.

Depending on the scope of the emergency and health support needs, coordination across multiple regions may be required. Coordination tables can be used to support this process with status reports to the MEOC. Cross-region action plans to prioritize response activities are developed with established mechanisms to coordinate actions across multiple boundaries.



8.6 Federal Section

8.6.1 Federal Agency Notifications

All pipelines that cross a provincial/country boundary are administered by the Canada Energy Regulator (CER). The CER is the regulatory authority that controls emergency response planning and actions within their jurisdiction. The CER has Memorandums of Understandings with some provincial oil and gas regulatory authorities. As required, the provincial oil and gas regulatory authority may provide response resources (manpower and equipment) from their field centres/offices to support the CER.

If an emergency occurs at a CER regulated operation, the regulated company involved will initiate its emergency response plan and follow the Incident Reporting Requirements.

For storage tanks regulated under the Canadian Environmental Protection Act, Part 8 of the Act requires that an enforcement officer or any other person designated by regulation or interim order be provided with a written report concerning an environmental emergency. The final Regulations designate the Regional Director, Environmental Enforcement Directorate, Enforcement Branch, Department of the Environment, in the region where the environmental emergency occurs.

The final Regulations specify that a written report of an environmental emergency is only to be submitted if the release has or may have an immediate or long-term harmful effect on the environment, constitutes or may constitute a danger to the environment on which life depends, or constitutes or may constitute a danger in Canada to human life or health. This precision is intended to help clarify the criteria that trigger the need for a written environmental emergency report. If there is any doubt as to whether the incident is a reportable environmental emergency, the incident should be reported to the Department.

8.6.2 Federal Government Roles

8.6.2.1 Canada Energy Regulator (CER)

The Canada Energy Regulator (CER) regulates inter-provincial and international pipelines, energy development and trade in the Canadian public interest. The CER's goal is to see to it that CER regulated facilities and activities are safe and secure and the environment is protected throughout their lifecycles.

The CER's top priority in any emergency is to make sure that people are safe and secure, and that property and the environment are protected.

For additional details, refer to the Canada Energy Board (CER) Onshore Pipeline Regulations (SOR/99-294 – Last Amended March 16, 2020).



8.6.2.2 Transportation Safety Board of Canada (TSB)

The Transportation Safety Board's (TSB) 24-hour hotline number provides a single window for reporting all occurrences to the Canada Energy Regulator (CER), Natural Resources Canada and RCMP as necessary. The incident reporting protocol requires that all incidents associated with CER regulated pipelines be reported using this single window approach through the TSB. This allows the TSB to collect data for evaluation and is intended to simplify the reporting procedure. All incidents and hazardous occurrences must be reported to the TSB within 24 hours. The TSB then forwards all information to the CER. This process meets the Canadian Labour Code regulations for reporting.

The TSB is an independent agency created to advance transportation safety through the investigation of occurrences in the marine, pipeline, rail, and air modes of transportation. A 'transportation occurrence' is any accident or incident associated with the operation of a ship, pipeline, railway rolling stock, or aircraft.

The TSB and Transport Canada (TC) are separate and distinct organizations. Transport Canada is concerned with developing and administering policies, regulations, and services for transportation systems in Canada with respect to marine, rail, and aviation. This differs from the TSB mandate of advancing transportation safety in the marine, pipeline, rail, and air modes of transportation through the conduct of independent investigations, the identification of safety deficiencies, and the making of recommendations to eliminate or reduce such deficiencies.

Another key difference between the TSB and TC is that TC reports to the Federal Minister of Transport, while the TSB reports to Parliament through the President of the Queen's Privy Council for Canada. This reinforces and demonstrates the TSB's independence from regulatory bodies.



8.6.2.3 Canadian Environmental Protection Act (E2)

Environment Canada requires any petroleum operator who has charge, management or control of substances in excess of threshold limits listed in Schedule 1 of the Canadian Environmental Protection Act to:

- Submit notices (some periodic) to inform ECCC of compliance with the regulatory requirements
- Prepare an Environmental Emergency Plan (E2 Plan) and review and update it, if necessary, at least once per year
- Bring the E2 Plan into effect to make sure the facility is ready to respond to an accidental release
- Conduct simulation exercises of the E2 Plan each year, a more extensive simulation exercise every five years and prepare a record after each exercise to be kept for a minimum of 7 years
- Keep a copy of the E2 Plan readily available at the facility and other places where it is needed



8.6.2.4 Environment & Climate Change Canada (ECCC)

Environment & Climate Change Canada's Environmental Emergencies Program (EEP) protects Canadian and their environment from the effects of environmental emergencies through provision of science-based expert advice and regulations.

The key Acts and Regulations that govern ECCC's role in environmental emergencies that allow it to deliver its mandate are:

- Canadian Environmental Protection Act, 1999
- Fisheries Act—Pollution Prevention Provisions;
- Migratory Birds Convention Act, 1994;
- Statutory Notification Requirements—EC's Environmental Notification System.
- Environmental Emergencies Regulations.

During an environmental emergency, The National Environmental Emergencies Centre (NEEC) is the focal point for ECCC.

ECCC's services during an environmental emergency:

- Collaborate with federal, provincial, territorial and international environmental protection agencies to enable rapid sharing of information.
- Convene and chair a Science Table of experts and stakeholders to develop consensus based advice to the Lead Agency.
- Identify environmentally sensitive areas and priorities (sensitivity and resource at risk mapping).
- Advise on mitigation and cleanup measures.
- Provide support and guidance in the assessment of oiled shorelines to prioritize their protection and cleanup (Shoreline Cleanup Assessment Technique (SCAT)).
- Advice on the fate and behavior of the spilled product.
- Advice on sampling and laboratory analysis.
- Provide weather forecasting and spill dispersion modelling to identify where these substances are likely to move in the environment.
- Provided expertise on the migratory bird resources and species at risk, including on-site assessment and determination of wildlife impact.
- Can conduct post-emergency assessments.
- Provide specialized advice in shoreline clean-up assessment techniques (SCAT).
- Provide Advise on mitigation and cleanup measures.



8.6.2.5 Canadian Department of Fisheries & Oceans (DFO)

The Canadian Coast Guard is the lead federal agency for ensuring appropriate response to all ship-source and unknown mystery spills in Canadian waters and waters under international agreements.

- Establishes appropriate and nationally consistent level of preparedness and response services in Canadian waters.
- Design and develop related regulations, policies, strategies and tools.
- Review, assess and monitor activities associated with fish habitat to ensure their compliance with the Fisheries Act and Species at Risk Act.
- Conduct environmental assessments under the Canadian Environmental Assessment Act.
- Design, develop and implement communication and education strategies.
- Any amount of hydrocarbons entering a waterway frequented by fish or occupied by waterfowl is deemed to be in contravention of the Federal Fisheries Act and must be reported to the Department of Fisheries and Oceans.
- Work together with provincial environment protection agencies and may be initially notified by ECCC.
- May send personnel to the site if there has been or could potentially be an impact to fish or fish habitat.
- Monitors and investigates all reports of marine pollution in Canada in conjunction with other federal departments.
- Maintains communications with the program's partners, including Transport Canada and ECCC, to ensure a consistent coordinated approach to marine pollution incident response.
- Aids in search and rescue operations.
- Work closely with ECCC, The Canadian Coast Guard and other provincial environmental agencies.

8.6.2.6 NAV Canada

NAV Canada is a private company who coordinates the safe and efficient movement of aircraft in Canadian domestic airspace and international airspace assigned to Canadian control.

Flight Information Centre (FIC) – FIC Services

Each Flight Information Centre is responsible for providing its particular service area with the following services, which pilots rely upon for safe flight planning and operations:

- Emergency
- Aviation Weather Briefing
- Flight Planning
- Enroute Flight Information Services
- Remote Aerodrome Advisory Services (RAAS)
- As requested by the licensee, the Flight Information Centre will issue a NOTAM (Notice to Airmen).



8.6.2.7 Health Canada

- Sets national standards to keep the environment healthy, keep water and air pollution low and Canadians safe.
- Maintains a nationwide network of radiation monitoring stations and can act if levels spike.
- Under Chemicals Management Plan, assess health risks from chemicals used in manufacturing and agriculture and require users to prove they actually need the chemicals to make their products
- Sets strict rules on how chemicals are used in order to limit human exposure.
- Preparedness exercises are designed to test how well the plans and procedures work during simulated emergency situations. Such exercises help the government identify strengths as well as any problems or inadequacies in preparedness plans and procedures so that these can be addressed before, not after, an actual emergency.
- During a health emergency or disaster, Health Canada and the Public Health Agency of Canada are responsible for supporting emergency health and social services in the provinces and territories.
- Work collaboratively with the provinces and territories to test ways in which the Canadian health care system can be improved and ensure its sustainability for the future.

8.6.2.8 Public Health Agency of Canada

The Centre for Emergency Preparedness and Response (CEPR) is responsible for:

- Developing and maintaining national emergency response plans for the Public Health Agency of Canada and Health Canada.
- Assessing public health risks during emergencies.
- Contribution to keeping Canada's health and emergency policies in line by collaborating with other federal and international health and security agencies.
- The health authority in the Government of Canada on bioterrorism, emergency health services and emergency response.
- Strengthen intergovernmental collaboration on public health and facilitate national approaches to public health policy and planning.
- Manages emergency preparedness and emergency response plans and keeps them up to date.
- Develops and runs exercises to train emergency workers.
- Develops and delivers training courses that teach health workers how to respond to emergencies.
- In an emergency situation, the Office of Emergency Response Services (OERS) is responsible for supporting emergency health and social services in the provinces, territories or abroad. It manages the National Emergency Stockpile System (NESS), which includes medical, pharmaceutical and related emergency supplies. The Office is responsible for the federal response to emergencies that have health repercussions; this includes the deployment of health emergency response teams (HERT).
- If a public health emergency grows beyond one province and/or territory, the Public Health Agency of Canada usually gets involved.
- Work with Health Canada to test ways in which the Canadian health care system can be improved and ensure its sustainability for the future.



8.6.2.9 Indigenous Services Canada, Regional Operations and First Nations and Inuit Health Branch

Since the Government of Canada's renewed commitment to a stronger relationship with Indigenous peoples in Canada, measures were initiated to affect a shift in the way the Government delivers services to Indigenous peoples. This included the creation of two new departments, which was announced on December 4, 2017. The two newly created departments, Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) and Indigenous Services Canada (ISC), are intended to improve the delivery of services while accelerating movement towards self-government and self-determination of Indigenous peoples.

As part of the departmental transition, both the former Regional Operations (RO) part of Indigenous and Northern Affairs Canada (INAC) and all of First Nations and Inuit Health Branch (FNIHB) of Health Canada have been absorbed into the newly created Indigenous Services Canada (ISC). RO and FNIHB work closely and collaborate towards the provision of emergency preparedness and response activities to First Nations communities in Canada.

In regard to First Nations emergency management, the role of RO is to 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. In Alberta Region, ISC-RO holds a comprehensive 10-year service agreement with Alberta Emergency Management Agency, through which First Nations in Alberta are supported in the four pillars of emergency management.

FNIHB carries out the public health preparedness and response activities related to natural and man-made disasters. This includes Communicable Disease Control and Environmental Public Health Services. In addition, FNIHB administers Non-Insured Health Benefits to First Nations clients, which includes extended coverage for medical transportation, pharma-care, medical devices and mental health supports. During an emergency, FNIHB works with First Nations leadership and health service providers to ensure health needs of First Nations communities are met.

Provincial specific FNIHB roles & responsibilities will be found in this section of the ERP, if applicable or as appropriate.



8.6.2.10 Indian Oil & Gas Canada (IOGC)

IOGC is an organization committed to managing and regulating oil and gas resources on First Nation reserve lands. It is a special operating agency within Indigenous Services Canada.

IOGC is responsible for oil and gas on First Nation reserve lands across Canada, but only a handful of reserves exist north of the 60th parallel. Therefore, practically all of IOGCs work is south of the 60th parallel, with most of that in the Western Canada Sedimentary Basin.

IOGC's general responsibilities are to:

- identify and evaluate oil and gas resource potential on Indian reserve lands;
- encourage companies to explore for, drill and produce these resources through leasing activity;
- ensure equitable production, fair prices and proper collection of royalties on behalf of First Nations; and
- secure compliance with and administer the regulatory framework in a fair manner.

IOGC operates pursuant to the Indian Oil and Gas Act and Indian Oil and Gas Regulations, 1995, as well as other relevant legislation and guidelines (see Acts and Regulations). Oil and gas activity on First Nation reserve lands depends on agreements involving First Nation band councils, oil and gas companies, and Indian Oil and Gas Canada.

Additional information is available at: <u>http://www.pgic-iogc.gc.ca/eng/1100110010458/1100110010464</u>

Acts and Regulations: https://www.pgic-iogc.gc.ca/eng/1100110010437/1100110010438

8.6.2.11 Transport Canada

Canadian Transport Emergency Centre (CANUTEC)

- Regulate the handling, offering for transport and the transport of dangerous goods by all modes in order to ensure public safety.
- Maintain a 24 hour emergency telephone service.
- Federal regulations require that CANUTEC be contacted in the event of an incident or accident involving dangerous goods and infections substances.
- Maintains records of over 3 million Safety Data Sheets (SDS).
- Assist emergency response personnel in handling dangerous good emergencies including advice on
 - o Chemical, physical and toxicological properties and incompatibilities of the dangerous goods
 - Health hazards and first aid
 - o Fire, explosion, spill or leak hazards
 - o Remedial actions for the protection of life, property and the environment
 - o Evacuation distances
 - o Personal protective clothing and decontamination
- CANUTEC staff does not go to the site of an incident, however, should on-site assistance be required, CANUTEC can assist in the activation or industry emergency response plans.
- Provide communication links with the appropriate industry, government or medical specialists.
- Maintain voice communication and written information records for two years for the protection of all parties.

Aviation Operations Centre (AVOPS)

- To close air space beyond an airport (e.g. above a sour gas release), AVOPS can be contacted by the licensee.
- Rescind the NOTAM and re-open air space that was closed due to emergency.



8.6.2.12 Public Safety Canada

- Public Safety Canada works with provincial and territorial officials to ensure first responders and emergency management personnel are well-prepared through education, support and exercises.
- Responsible for promoting and coordinating the preparation of departmental emergency management plans as well as coordinating the government's response to an emergency through the Government Operations Centre (GOC).
- Public Safety Canada houses the Government Operations Centre at the hub of the national emergency management system. It's an advanced centre for monitoring and coordinating the federal response to an emergency.
- In the event of a large-scale natural disaster where response and recovery costs exceed what individual provinces and territories could reasonably be expected to bear on their own, PS provides financial assistance to the provincial and territorial governments through the Disaster Financial Assistance Arrangements (DFAA).
- Assistance is paid to the province or territory not directly to individuals or communities. The provincial or territorial governments design, develop and deliver disaster financial assistance, determining the amounts and types of assistance that will be provided to those who have experienced losses.

8.6.2.13 Royal Canadian Mounted Police (RCMP)

- RCMP or local police would also become involved if there are fatalities, as they are required to participate in the investigations. This could be through the medical examiner.
- Maintain law and order and assist the operator with local security but would require discussion with the local police at the time.
- The Office of the Fire Commissioner (OFC) has a working relationship with the RCMP and the RCMP may conduct selected duties of the Fire Commissioner where the fire's impact is not significant.
- Assist with traffic control, crowd control, evacuation, and residence security.
- Typically would not be involved in setting up or maintaining roadblocks unless the emergencies impacted or required the closure of 1, 2 and 3 digit Provincial or Secondary highways.
- Establish and maintain communications with industrial operator.
- Dispatch a representative to the off-site Regional Emergency Operations Centre, when established, to coordinate the response.
- Coordinate with the industrial operator both the establishment and the administration of reception centres for evacuees.
- Maintain a 24 hour emergency contact number where resources can be accessed for a response related to Emergency Response Plans.



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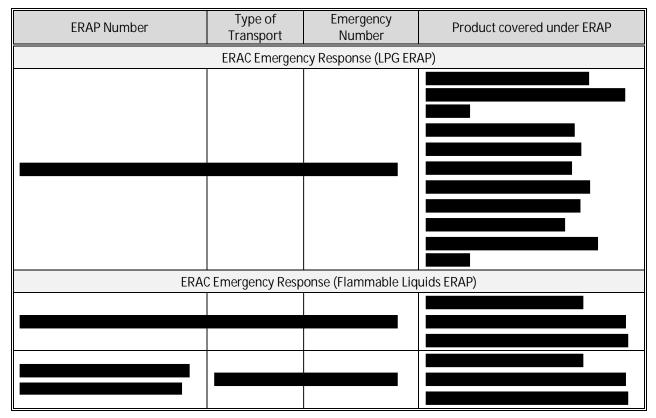


8.7 Mutual Aid

8.7.1 Emergency Response Assistance Canada (ERAC)

Emergency Response Assistance Canada (ERAC) is an organization that provides a Transport Canada approved Emergency Response Assistance Plans (ERAP) to its members. PMC has an active membership.

In the event of a road, rail or stationary vessel incident (≥ 450 litres) emergency involving Liquefied Petroleum Gas (LPG), PMC, as required, can call Emergency Response Assistance Canada (ERAC) for advice and support of an LPG-related emergency. Documentation with any shipment will contain a Transport Canada Permit Number and contact numbers for Emergency Response Assistance Canada (ERAC) emergency activation. The table below outlines PMC Emergency Response Assistance Plans (ERAP):



8.7.2 CANUTEC/CHEMTREC

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. Contact CANUTEC in the event of an emergency involving dangerous goods.

CHEMTREC allows shippers of hazardous materials to comply with government hazardous materials regulations and provide immediate critical response information for emergency incidents involving chemicals, hazardous materials and dangerous goods.

Additionally, a guide was developed to aid first responders in responding to a dangerous goods incident. Refer to 4.5: Transportation of Dangerous Goods and the 'Emergency Response Guidebook (ERG) – 2020 (ERG2020)'.



The table below outlines PMC Emergency Response Assistance Plans (ERAP):

CANUTEC/Chemtrec Emergency Response					
Shipping Name	ERAP (Customer) Number	Type of Transport	Country	Emergency Number	Products covered under ERAP



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9.1 Regulatory Description

The PMC Eastern Area Pipeline system is regulated by the Canada Energy Regulator (CER) as some of the pipelines cross the Canada/United States Border The Eastern Area Pipeline ERP has been created to meet the Onshore Pipeline Regulations (SOR/99-294 – Last Amended March 16, 2020).

The on-site storage tanks / caverns located at the PMC Sarnia Fractionation Plant and the PMC Windsor Storage Facility are regulated under the *Canadian Environmental Protection Act, 1999* as the substances stored are in excess of the threshold limits listed in Schedule 1. Therefore, Environmental Emergency Plans (E2 Plans) have been prepared for these facilities. Please refer to the Windsor Storage Facility ERP or the Sarnia Fractionation Plant ERP for the applicable E2 Plans.

The Eastern Area Pipeline (EAP) site-specific section is to be used in conjunction with the PMC Core Emergency Response Plan.

9.2 General Area Information

9.2.1 Overview

The Eastern Delivery System (EDS) Pipeline bi-directionally transports a NGL mixture between the Sarnia Fractionation Plant and PMC Windsor Storage Terminal. The Kalkaska 8" pipeline transports a NGL mixture from Marysville, Michigan to PMC Sarnia, crossing the US border (as of May 1/19 this pipeline has been idled and is sitting with an N2 purge). The 8" LPG line transports NGL from PMC Sarnia to PMC St. Clair, Michigan.

The 12" Windsor to Sarnia Pipeline (WSP) predominantly transports ethane to Nova, Corunna but can also be routed to Pembina, Corunna.

Local area pipelines (the Sarnia Downstream System (SDS)) pick up and distribute NGLs to/from plants in the Sarnia area. Parts of the SDS pipeline falls within First Nations Reserve Land. An 8" brine transfer line carries brine to Nova Corunna Plant. An 8" condensate pipeline transfers syncrude buffer back to the Suncor Plant in Sarnia. There is a high concentration of industrial operators in the area that store highly hazardous materials on-site.

The following table outlines the pipelines this Area Specific Section covers and some of the local authorities/cities/towns/First Nations Land associated with the pipelines:

	Eastern Area Pipeline include:
	Windsor to Sarnia Pipeline (WSP)
	Sarnia Downstream System (SDS)
	Other local NGL pipelines and 8" brine transfer line to Nova
ERP Encompasses:	The 8" condensate pipeline to Suncor, Sarnia ON
Encompasses.	• The Kalkaska 8" ethane pipeline from Marysville, Michigan USA to PMC Sarnia
	• The 8" LPG pipeline from Plains Sarnia to St. Clair, Michigan
	• The EDS-South pipeline from the Windsor Terminal to the Detroit River
	• The EDS-North pipeline from the Windsor Terminal to the Sarnia Pump Station



	In Ontario:	
	County of Essex	
	Town of Tecumseh	
	Town of Lakeshore	
	Town of LaSalle	In Michigan:
Close Proximity	County of Lambton	City of Marysville
to:	City of Sarnia	City of St. Clair
	Township of St. Clair	City of Detroit
	 Municipality of Chatham-Kent 	
	City of Windsor	
	Port of Windsor	
	 Aamjiwnaang First Nations 	

The Olds Control Centre is located in Alberta operates the Eastern Area Pipeline System. The Olds Control Centre Shift Operations Foreman is responsible for the day-to-day operations and in an emergency situation will:

- Supervise analysis of leak detection/location data and event compilation.
- Communicate with the Pipeline Supervisor and regulatory organizations.
- Maintain or delegate someone to maintain a complete record of events and communications associated with a reported leak or repair.

The following covers pipelines that are <u>CER regulated</u>:

The Sarnia Downstream System (SDS) pipeline facilities include an 8" inch LPG pipeline to transport light hydrocarbon liquids from the PMC Sarnia Fractionation Plant to PMC storage facilities in St. Clair, Michigan.

The Canadian portion of the Kalkaska 8" pipeline transports ethane from Merit Energy in Marysville, Michigan to the PMC Sarnia Plant. The ethane is trans-shipped to Imperial Oil in Sarnia (this line is currently idled and under N2 purge).

The EDS-South Pipeline transports light hydrocarbon liquids bi-directionally from PMC Windsor to facilities in Michigan.

At the Windsor Terminal, the light hydrocarbon liquids may be placed in underground storage or can be transported via the 12" Windsor to Sarnia Pipeline (WSP) to Nova Corunna, or to Pembina Corunna.

The Midland Control Centre will operate the EDS-South and the 8" LPG pipelines from their local control centre.

The Kinder Morgan Utopia pipeline segment from the Detroit River to the Windsor Terminal is owned by Kinder Morgan but shares the same right-of-way as Eastern Delivery System (EDS) South. This pipeline transports light hydrocarbon liquids from delivery points into the Windsor Terminal.

The EDS-North Pipeline bi-directionally transports light hydrocarbon liquids between the Sarnia Facility and Windsor Terminal. The Olds Control Centre (OCC) operates the EDS-North pipeline and the WSP from their local control centre.

- For the Windsor to Sarnia line, the boundary of applicability for this plan is from the Windsor Terminal to Nova Corunna and to Pembina Corunna terminal in Sarnia.
- For the EDS North pipeline, the boundary of applicability is the Windsor Terminal to the Sarnia Pump Station.
- For the SDS pipeline, the boundary of applicability is the Sarnia Plant to the centre of the St. Clair River.
- For the other pipelines, the boundary of applicability is the Sarnia Plant to the first block valve at the local industry's facility.



Other local pipelines operated by Plains (non - CER regulated) include:

- 6" production condensate line to Nova Chemical (idled)
- 8" utility line (idled)
- 8" freshwater line from TransAlta (idled)
- 8" City of Sarnia water line, an 8" brine disposal line (idled)
- 8" HDPE brine transfer line to Nova
- 4" hydrogen line (idled)
- 6" ethane line to Esso (idled), and
- 6" propane line to Esso/Imperial

All non – CER regulated pipeline operations are controlled and operated by the OCC local control centre.

9.3 Driving Directions





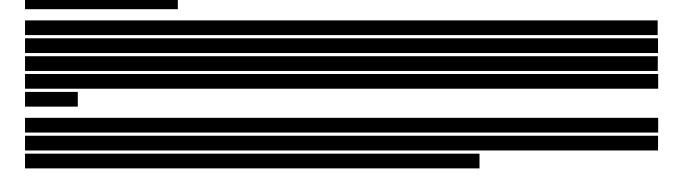
9.4 Alarms and Communications

9.4.1 Warning Systems



9.4.2 Communications Infrastructure







9.4.3.1 Gate Access / Emergency Muster Plan





9.4.4 Facility Evacuation

This section is not applicable to the Eastern Area Pipeline ERP.

9.4.5 Emergency Shut Down (ESD) System



9.5 Equipment Lists and Locations

9.5.1 Equipment Lists

Located at the PMC Sarnia Fractionation Plant:

<u>Note</u>: There is 24/7 access to equipment at the Sarnia plant which is manned 24/7 by Operations personnel. All Pipeline Technicians have security cards that allow them access to the plant. They would contact the Operations Control Room on site and indicate that they would need response equipment. Trucks are available with ball hitches to pull the safety trailer to location as required. The other equipment could be loaded up on to their pipeline trucks accordingly.

Equipment Type	Quantity	Location		
General Equipment				
Fire Extinguishers	1			



Equipment Type	Quantity	Location		
Self-Contained Breathing Apparatus (SCBA)				
First Aid				
Supplies at Command Post				
,				
Miscellaneous		Γ		
		-		
		-		
		-		
		-		
		-		
		4		
		4		
		1		
		1		
		1		



Located at the PMC Windsor Storage Facility:

<u>Note</u>: The Windsor Storage Facility is manned through the night with an operator who has ready access to all of the equipment. If a pipeline technician were at a block valve location in (or closer to) Windsor and needed access to this equipment, they would approach the main gate at the Windsor Plant and press the button on the intercom button to ring into the control room. The Windsor operator would then meet the pipeline technician at the gate or remotely open the gate to allow them entry to the site and access to the equipment.

Equipment Type	Quantity	Location
General Equipment		-
Supplies in the Control Room		
Spill Response Trailer		



Equipment Type	Quantity		Location	
Additional Equipment				
	1	1		

9.5.2 Personal Protective Equipment (PPE)

All persons entering the plant are required to wear Canadian Standards Association (CSA)-approved:

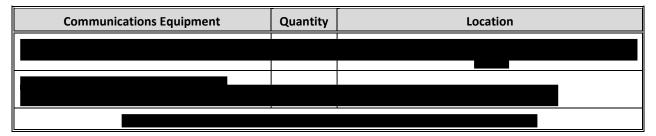
• Steel-toe boots

• Hard hats

- Gloves
- Safety glasses

- Fire retardant work wear with reflective striping
- Personal gas monitors

9.5.3 Communications Equipment



9.5.4 Vehicle Equipment

Equipment Type	Quantity



9.5.5 Roadblock Kits

Roadblock Kits	Quantity	Location

9.5.6 Ignition Kits

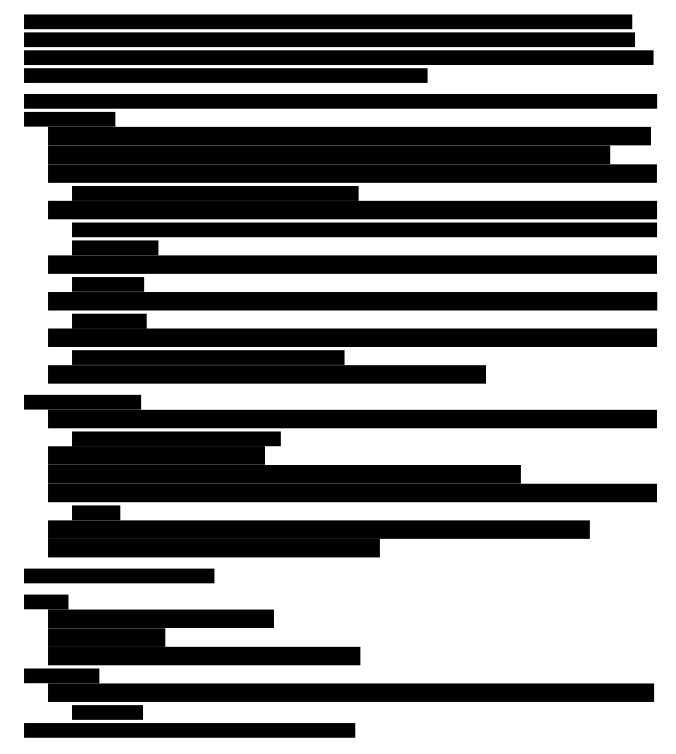
9.5.7 PMC Response Equipment

If required, services will be acquired from Eastern Canada Response Corporation (ECRC) and/or GHD.



9.6 Other Area Specific Information

9.6.1 Bluewater Association for Safety, Environment, and Sustainability (BASES)





Eastern Area Pipeline Emergency Response Plan

CAER Code	CAER Code Description	Code Use at PMC Sarnia Facility	Examples
COMMUNITY AWARENESS NOTIFICATION	Advisory by a member company of a non- emergency activity that could cause concern or inquiry by parties external to a BASES member site.	 Used when the source of the issue is known and controlled. Can be used proactively or reactively depending on issue. Provides municipal authorities with factual info to ensure that they have the ability to respond to public queries. Send fax, NOT to be broadcast over BASES radio. 	 False emergency alarm. Known excessive/smoky flaring. Alarms activated as part of training scenario. Known plant outage that may cause higher flare than normal. Odours associated with Maintenance activities (ie. Mercaptan, Brine odours).
Code 5	Incident <u>outside</u> plant boundary requiring Municipal or BASES assistance.	Very limited use.	 Trucking company experiences a rollover/release on Plank Rd. – BASES could provide support to remediate issue. Pipeline emergency outside of the Plant.
Code 6	Incident <u>which goes</u> or <u>has the potential</u> to go beyond the boundaries of a plant.	 Full traffic control required in the designated area. When a product has left site or has the potential to leave site. A release of hydrocarbon from site may trigger the need for traffic control on surrounding road/railways. 	 Leak detected at RP8 with a north wind pushing hydrocarbon toward Plank Rd.
Code 7	Bomb threat.	 If threat does not appear to be credible or imminent, notification in clear language called in to 911. If threat does appear to be credible, notification can be made over the radio. 	Self-explanatory.
Code 8	Noticeable occurrence of an emergency nature, BUT it can be mitigated by the company.	 Any occurrence that requires the sounding of the plant alarm any time other than the weekly Monday alarm sounding at 12:30PM. Small fire that can be extinguished with a hand-held fire extinguisher. 	 Excessive/unresolved flaring. Loss of plant control due to DCS failure. Notifies the municipality and other BASES members of a noticeable occurrence as it may cause concern for neighbours and the public in general.
Code 9	Request for municipal fire department.	 Whenever a fire cannot be extinguished by a handheld extinguisher. Exposure cooling is required. Rescue is required. 	 A fire that cannot be extinguished by a fire extinguisher.



Eastern Area Pipeline Emergency Response Plan

CAER Code	CAER Code Description	Code Use at PMC Sarnia Facility	Examples	
Code 9-1	Request for specific industrial fire equipment	 Whenever the site does not possess specific firefighting/rescue equipment. Decision will likely be assisted by municipal fire department. 	 Bulk amounts of firefighting foam required. Industrial support required: terminators from Nova, for example. 	
Code 9-2	Request for all available apparatus from all BASES members having response capability.	 Collaborative decision between the Incident Commander and the municipal fire department. 	• A fully involved tank fire where personnel, apparatus, and foam stocks of the entire organization are required.	
Code 10	Verified spill to the St. Clair River	• Highly unlikely to be used for PMC Operations in the area.	 Release of condensate from one of our above ground storage tanks would need to make its way to the Cole Drain – which ultimately drains to the St. Clair River. We would work with the City to have such a release contained (block valves, diversion, booming) prior to travelling the roughly 3kms. 	
ALL CLEAR	An "ALL CLEAR" is required for ALL of the above Codes, including the "Community Awareness Notification".			



BASE Mutual Aid Inventory

	APPENDIX A – CVECO MUTUAL AID INVENTORY		
Community Awareness Emergency Response	Document Number: CApp-A	Document Type: CVECO Appendix	
	Document Owner: CVECO Fire Subcommittee	Document Approver: CVECO Executive	Date of Approval
	Revision Number: 12	Issue Date:	Next Revision:

Purpose

This appendix provides information on the various emergency apparatus available on a CVECO mutual aid request (Code 9/91/92).

CAUTION

This appendix <u>must</u> be kept current for it to be of value in preplanning or in Code 91/92 events.

If changes in the status or availability of your equipment occur, please notify the CAER Administrator immediately.

NOTE All flow and volume information is given in both metric and US measurements.



NOTE

All trucks with a foam tanker icon in the lower right corner have an external foam concentrate suction with an 1½^e cam lock connection to allow suction from the CVECO Foam Tanker.



	APPENDIX A – CVECO MUTUAL AID INVENTORY		
Community Awareness Emergency Response	Document Number: CApp-A	Document Type: CVECO Appendix	
	ss Document Owner:	Document Approver: CVECO Executive	Date of Approval
	Revision Number: 12	Issue Date:	Next Revision:

Scope

This appendix is comprised of the following main sections:

- 1. Criteria
- 2. Pumpers
- 3. Foam Pumpers
- 4. Telesquirts
- 5. Aerial Platforms
- 6. Quick Response Units
- 7. Foam Tankers
- 8. Water Tankers
- 9. Bulk Foam Supplies
- 10. Specialized Equipment

References

 Code 9/91/92 – Fire Department & Mutual Aid Assistance



MUTUAL AID INVENTORY

1.0 Criteria 1.1 The inventory consist

- 1.1 The inventory consists of apparatus and equipment that can be released by a CVECO member without compromising the safety of their own site.
 - If an emergency exists at the owner's site, the apparatus may not be available to other members.
- 1.2 In some cases, not all the listed apparatus is available at one time. A decision must be made by the CVECO member requesting the equipment as to which piece is most applicable to their emergency.
- 1.3 If a CVECO member has response equipment out of services for a significant amount of time they should notify the CAER Administrator by an e-mail noting the length of time the equipment will be out of service. This note will then be forwarded to all CVECO members.
- 1.4 In addition, not all-municipal equipment is listed. Only apparatus suitable for an industrial response is shown. If additional municipal equipment is required by industry, the request will go through the municipal Incident Commander in the area the event is in.
- 1.5 Rather than listing the apparatus and equipment by owner, it is listed by type to make the task of finding the appropriate piece easier.
- 1.6 Next to the equipment listing will be information regarding water pump capacity, water or foam tank size, foam type and the equipment owner.



2 - PUMPERS				
Picture & Identification	Pump (USGPM)	Tank (USG)	Owner	
Lafforto HA	1,900	500		
	L/MIN	LITRES		
	7,000 (Class A & B foam system)	1,900		
Engine 1			8	
	1,900	500		
an and a serie of	L/MIN	LITRES		
	7,000	1,900		
Engine 5	(Class A & B foam system)		SARN A	
	1,250	500	Chief John Kingyens	
FFE REST.	L/MIN	LITRES		
Rescue 1	4,500	1,900		
SARNIA FIRE / RESCUE	1,585	750		
	L/MIN	LITRES		
	6,000	2,839		
Engine 3		I		



2 - PUMPERS				
	ater			
Pump (USGPM)	Tank (USG)	Owner		
1,500	800			
L/MIN	LITRES			
5,700	3,000			
1,250	1,000			
L/MIN	LITRES			
4,500	3,800	Chief Walt Anderson		
1,000	1,000			
L/MIN	LITRES			
3,800	3,800			
1,500	800			
L/MIN	LITRES			
5,700	3,000			
	Pump (USGPM) 1,500 L/MIN 5,700 1,250 L/MIN 4,500 1,000 L/MIN 3,800 1,500 L/MIN	(USGPM) Talk (USG) 1,500 800 L/MIN LITRES 5,700 3,000 1,250 1,000 L/MIN LITRES 4,500 3,800 1,000 1,000 L/MIN LITRES 3,800 3,800 1,500 800 L/MIN LITRES 3,800 3,800 1,500 800 L/MIN LITRES		



2 - PUMPERS						
		ater	122			
Picture & Identification	Pump (USGPM)	Tank (USG)	Owner			
<image/>	1,250	800				
	L/MIN	LITRES				
	4,500	3,800	SI, CLAIR TOWNSHIP			
	1,800	1,000	Chief Walt Anderson			
	L/MIN	LITRES				
	5,700	3,000				
No. 1	1,750	700	ANT PORT			
	L/MIN	LITRES				
	6,600	2,700	Chief Doug MacKenzie			



3 – FOAM PUMPERS					
	Water		Fo	bam	
Picture & Identification	Pump (USGPM)	Tank (USG)	Туре	Tank (USG)	Owner
Unit 175	1,250		A AR AFFF	1,000	FIRE
	L/MIN	N/A A		LITRES	
	3,800			3,800	LANXESS
	1,000			350	NOTE Unit 237 has additional water & foam solution
Unit 237	L/MIN	N/A	AR AFFF	LITRES	flow capability of 2,000 USGPM from the deck
	4,800			1150	monitor when directly connected to a high pressure hydrant.
#1	1,800		AFFF	1,000	
	L/MIN	N/A		LITRES	
	7,000		6	3,800	INPERIAL OIL
#1	3,800			1,000	Jim Belrose
	L/MIN	N/A	AR AFFF	LITRES	
	13,250			3,800	



3 – FOAM PUMPERS						
		Water		am		
Picture & Identification	Pump (USGPM)	Tank (USG)	Туре	Tank (USG)	Owner	
Fumper #4	1,250 L/MIN 4,700	N/A	AR AFFF	1,000 LITRES 3,800	Nick Robichaud	
	2,000 L/MIN 7,570 L/MIN 4,000	N/A	AFFF/ ATC	1,200 LITRES 4,500 LITRES 3,800	Justin Hagan	
FI1	3,800 L/MIN 13,250	N/A	AR AFFF	1,200 LITRES 4,500	Jamie Armstrong	



4 - TELESQUIRTS							
	Aerial	Water		Foam			
Picture & Identification	Ladder (Ft)	Pump (USGPM)	Tank (USG)	Туре	Tank (USG)		
Reserve 1	50'	1,800	500	N/A	N/A	Chief John Kingyens	
		L/MIN	LITRES		LITRES		
		7,000	1,900		N/A		
Reserve 2	50'	1,800	500	N/A	N/A		
		L/MIN	LITRES		LITRES		
		7,000	1,900		N/A		
Ladder 2	75'	2,000	440	AR FFFP	40		
		L/MIN	LITRES		LITRES		
		7,600	1,651		150		
		2,000	440		40		
Ladder 4	75'	L/MIN	LITRES	AR FFFP	LITRES		
		7,600	1,651		150		



4 - TELESQUIRTS						
	Aerial	Wat		F	oam	
Picture & Identification	Ladder (Ft)	Pump (USGPM)	Tank (USG)	Туре	Tank (USG)	
		2,000	440	4.5	40	SARNIA
	75'	L/MIN	LITRES	AR AFFF	LITRES	FIRE DEPT.
Ladder 4		7,600	1,651		150	Chief John Kingyens
		1,500	N/A		1,000	IMPERIAL OIL
	54'	L/MIN	LITRES	AR AFFF	LITRES	Versponds
#3		5,800	N/A		3,800	Jim Belrose
		1,250	400		N/A	SL. CLAIR TOWNSHIP
	75'	L/MIN	LITRES	N/A	LITRES	
No. 21 (Corunna)		4,700	1,500		N/A	Chief Walt Anderson
		1,500	500		N/A	
	75'	L/MIN	LITRES	N/A	LITRES	THE & RESCUE
Ladder 2		5,800	1,900		N/A	Chief Doug MacKenzie



4 - TELESQUIRTS	Aerial	Wat	ter	F	oam	
Picture & Identification	Ladder (Ft)	Pump (USGPM)	Tank (USG)	Туре	Tank (USG)	
		1,800	N/A		1,200	
ALLAN BERZE	75'	L/MIN	LITRES	AR	LITRES	A
FT4		7,000	N/A	AFFF	4,550	Jamie Armstrong
		2,000	N/A		500	
	75'	L/MIM	LITRES	1 X 3 AFFF	LITRES	
FOAM		7,570	N/A	ATC	1,8907	Justin Hagan



	Aerial	Wa	ter	F	oam	
Picture & Identification	Ladder (Ft)	Pump (USGPM)	Tank (USG)	Туре	Tank (USG)	Owner
ANNAL BANK		2,000	350		N/A	SARNIA
	104'	L/MIN	LITRES	N/A	LITRES	FIRE DEPT.
Tower 4		7,600	1,325		N/A	Chief John Kingyens

6 – Quick Response Units			6		
	Dry Ch	nemical	Foam S	olution	
Picture & Identification	Tank (Ibs)	Туре	Tank (USG)	Туре	
	450 KILOS	Purple K BC Rated	100	3% AFFF	NOVIA CHEMICOLS
#3	205	Naleu	380		Wick Robichaud



7 – FOAM TANKERS				
		FOAM		
Picture & Identification	Туре	Tank (USG)	Pump (USGPM)	Owner
		1,800	150	IMPERIAL OIL
		LITRES	L/MIN	(11m) (1)
#91	AR AFFF	6,800	570	FIRE Jim Belrose
		3,500	200	
	AFFF ATC 1% x 3%	LITRES	L/MIN	
		13,250	760	Justin Hagan
R257				
B		6,200	N/A	
	AR AFFF	LITRES	L/MIN	
CVECO Foam Tanker		23,470	N/A	Community Aurometes threegency teacose Code 91



8 – WATER TANKERS			
		ater	
Picture & Identification	Tank (USG)	Pump (USGPM)	Owner
The second se	2,100	750	SARNIA
	L/MIN	LITRES	DEEL
Tanker 4	7,950	2,850	Chief John Kingyens
	1,800	300	SI. CLAIR TOWNSHIP
	L/MIN	LITRES	1000
No. 12 (Brigden)	6,800	1,140	Chief Walt Anderson



TYPETOTAL AMOUNTCONTAINERUSGLITRESUSGLITRESOWNEAR AFFF20007,570Tote tanks – suction through top of tankImage: Contained by the subscript of tankImage: Contained by the subscript of tankAR AFFF20007,570Tote tanks – suction through top of tankImage: Contained by the subscript of tankImage: Contained by the subscript of tankAR AFFF5,64021,350Totes & DrumsImage: Contained by the subscript of tankAR AFFF5,64021,350Totes & DrumsImage: Contained by the subscript of tankImage: Contained by the subscript of tank21,350Totes & DrumsImage: Contained by the subscript of tankImage: Contained by the subscript of tank21,350Totes & DrumsImage: Contained by the subscript of tankImage: Contained by the subscript of tank21,350Totes & DrumsImage: Contained by the subscript of tank	9. BULK FOAM SUPPLIES					
AR AFFF20007,570Tote tanks - suction through top of tankImage: Constraint of the section through top of tankAR AFFF5,64021,35055200AR AFFF5,64021,350Totes & DrumsJim Belr						
AR AFFF 2000 7,570 Tote tanks – suction through top of tank Image: second secon	R					
AR AFFF 5,640 21,350 Totes & Drums Jim Belr	-					
AR AFFF 5,640 21,350 Totes & Drums						
Totes & Drums	1.0/2					
275 1,040						
AR AFFF 1,800 6,820 Tote tanks 1.5" connections	Color MANUFA					
265 1,003						
AR AFFF 265 1,000 Foam Trailer Nick Robin	chaud					
55 208						
AFFF 330 1,250 Drums Justin Ha	? agan					
264 1,000 SUNCO	R					
AR AFFF 1,320 5,000 Tote tanks 1.5" Camlock connections Jamie Arm						
TOTAL 11,355 42,990	strong					



10 – SPECIALIZED EQUIPMENT				
Picture & Identification	Description	Owner		
Terminator 3	 Foam cannon 3,000 usgpm / 11,400 lpm 4" Supply hose x 1,500 ft 5" " x 1,000 ft 	Jim Belrose		
Terminator 1 (x 2)	 Foam cannons (2) 2,000 usgpm / 7,500 lpm 5" Supply hose x 1000 ft 	Nick Robichaud		
Ambassador	 Foam cannon 2,000 – 6,000 USGPM 7,570 – 22,712 L 	Justin Hagan		



10 – SPECIALIZED EQUIPME	NT	
Picture & Identification	Description	Owner
Hi Vol Hose Tender	2,000 feet of 5" hose	
Quick Attack Truck	1 – 750 GPM Monitor (2,840 L) 1 – 1,250 Hydro-Foam (4,730 L) 2 – 4" Inlets 300' 4" Supply Hose 55 Gals AFFF Foam (210 L)	Justin Hagan
With the second seco	 Dry Chemical application device Trailer mounted 350 lb BC rated dry chemical (Williams PWK) Two Williams "Hydrochem" 1½" nozzles Two 100 ft lengths of hose 	EANXESS THE Bruce Morrison



10 – SPECIALIZED EQUIPME	NT	
Picture & Identification	Description	Owner
Command Post	 Municipal Command Post (Sarnia) Computer & communications equipment 	Chief John Kingyens
Relicopter C-GEPR	Type:Eurocopter EC 120Registration:C-GEPR (Charlie, Golf, Echo, Papa, Romeo)Max seating:1 pilot, 2 passengersCruise speed:120 knotsEndurance:3 hours with full fuelGross weight:3780 lbs.Empty weight:2700 lbs.Carry Capacity:1080 lbs. (combination of fuel, passengers and cargo)	Terry McNally
Rescue Unit (Corunna)	SCBA's & extrication equipment	ST. CLAUR TOWNISHIP
Air Trailor (Millionart)		Chief Walt Anderson
Air Trailer (Wilksport)		



10 - SPECIALIZED EQUIPME	NT	
Picture & Identification	Description	Owner
No. 3	 Rescue Unit. Generator Extrication equipment 	Chief Doug MacKenzie
Nova Manufacturing East Emergency Backup Vehicle	 Air conditioned rehab vehicle Fully loaded with ER appliances / applicators 4 SCBA 8 Spare SCBA cylinders Room for 4 responders with air packs Gas detection equipment Decontamination equipment Non sparking tools 	Nick Robichaud
ARAMIA FERE / RESOURCE TRANS	 Tools and equipment for hazardous material response. Level A & B response suits Wet & dry decon capability Limited plugging & patching capability Containment capability – drum over packs, etc. 	Chief John Kingyens
Rescue 4	• Rescue Unit	FIRE Jim Belrose



Picture & Identification	Description	Owner
Command Unit	 Used as on-site command post Contains assorted rescue equipment including: SABA system Level 'A' HazMat suits (4) 	Succession Succession Jamie Armstrong



APPENDIX A – MUTUAL AID INVENTORY

	REVISION LOG				
Date	Date Revision Section Comments				
01/01/1970	00	All	Original issue		
01/01/2003	01	All	Apparatus pictures added & organized into types		
03/01/2004	02	All	 Point Edward, St. Clair Township, Dow & Enbridge equipment revised. 1½ " camlock foam connection identified as standard for supply & transfer purposes. 		
06/01/2004	03	All	Sarnia Fire Rescue Services and IOL equipment revised.		
02/01/2005	04	All	 Some apparatus pictures upgraded. Bayer changed to LanXess Bruce Morrison (LanXess), Jim Belrose (IOL) and Daryl White (Enbridge) added as new company representatives. 		
06/01/2005	05	All	Some apparatus pictures upgraded.		
12/01/2005	06	7 9 10	 Suncor foam tender removed from service bulk foam stock revised. Dow ambulance removed hydrochem unit added representative changed to John Helferty Nova bulk foam stock revised Chemicals Recovery Unit removed. 		
11/01/2006	07	4 9 10	 Point Edward Fire Rescue Ladder 2 added Pumper Rescue 2 removed Enbridge helicopter updated Nova Representative changed to Pat Lea Foam stock updated Manufacturing East Emergency Backup vehicle added 		
07/01/2008	08	7 9 10	 CVECO Foam Trailer added Dow bulk foam stock removed SFRS HazMat trailer added 		



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APPENDIX A – MUTUAL AID INVENTORY

REVISION LOG					
Date Revision Section		Section	Comments		
			 Crest updated Shell R 258 picture updated Nova SCRS pumper removed Imperial Oil new #1 foam pumper added & old #1 pumper removed. LanXess bulk foam stock updated 		
06/30/2011	09	2 4 3 10	 SFRS Ladder #2 & #3 added LanXess # 237 added @ # 237 added @ Hydrochem unit changed from Dow to LanXess St. Clair #31 (Wilksport) number changed to #41 IOL Rescue 4 added 		
11/14/2011	10	All	Suncor equipment updated (New FT 1 & Command Unit added, FT6 Quick Response removed) Section in new format		
04/04/2012	11	All	 Foam tanker icon added to pictures of apparatus capable of taking suction on CVECO foam tanker. Company emergency response crests added. 		
12/01/2014	12	2 3 4 7 10	 Names of company representatives updated (John Kingyens, Walt Anderson, Nick Robichaud & Justin Hagan) Shell apparatus updated SFRS apparatus updated Brigden lighting unit removed 		
			•		

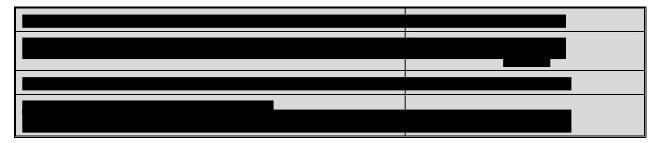
CVECO Executive Chair Name: Bryan VanGaver_____

CVECO Executive Chair Signature:

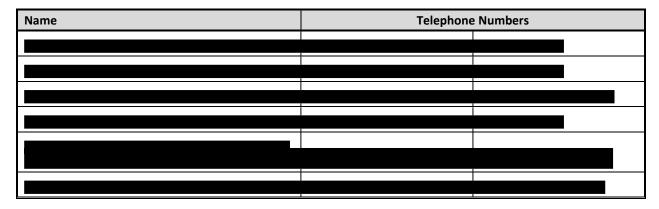


9.7 Common Telephone Directory

9.7.1 PMC 24-Hour Emergency Line

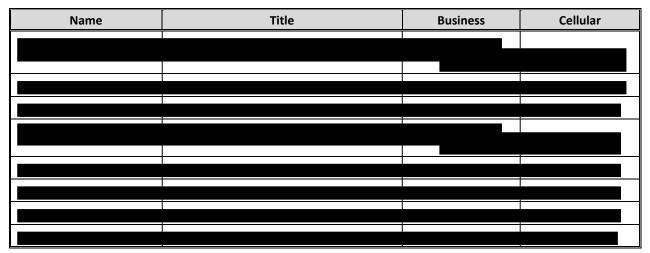


9.7.2 Internal Emergency Telephone Numbers



9.7.3 Local Responders

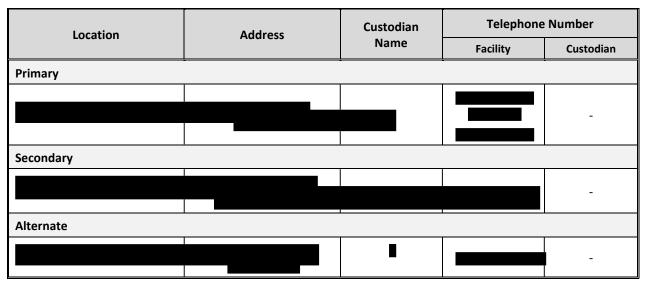
All Local Responders listed below can respond in the key roles within the Incident Command System (ICS). Response position would depend on the complexity and location of the incident.



<u>Note</u>: Additional responders may be mobilized by using the PMC local area contact list and the Incident Command System (ICS) being part of the Core training requirement at PMC.



9.7.4 Incident Command Posts (ICPs)



<u>Note</u>: As required, PMC will relocate its Incident Command Post (ICP) closer to the incident. It will utilize an available facility or mobilize office trailers for the location of this relocated Incident Command Post (ICP).

9.7.5 Reception Centres

Location	Address	Custodian Name	Telephone Number	
Location			Facility	Custodian
Sunbridge Hotel Sarnia/Point Edward Hotel & Conference Centre	1498 Venetian Boulevard Point Edward, ON	-		-
Hampton Inn & Suites	1840 Huron Church Road Windsor, ON	-		-
Holiday Inn Hotel & Suites Windsor (Ambassador Bridge)	1855 Huron Church Road Windsor, ON	-		-

<u>Note</u>: The role of the Reception Centre is as a registration and inquiry centre for evacuated public. It is not used as a location where evacuees are housed.



9.7.6 First Responders

Agency	Location	Telephone Number	
Ambulance/Fire/Police	Ontario-Wide	911	
STARS Emergency Link Centre (Air Ambulance) <u>Note</u> : Based off the location of the injured person(s), STARS Emergent determine which Air Ambulance Base to dispatch from.	1-888-888-4567		
Ambulance	Ontario-Wide	911	
County of Essex			
Essex-Windsor EMS <u>Note</u> : 24/7 coverage for all of Essex County, City of Windsor and Pelee Island and operates out of 12 bases.	Essex / Windsor, ON	519-776-6441 Ext. 2200	
County of Lambton			
Sarnia Station 1	Sarnia, ON	519-882-2442	
Brights Grove Station 2	Brights Grove, ON	519-882-2442	
Corunna Station 3	Corunna, ON	519-882-2442	
Brigden Station 4	Brigden, ON	519-882-2442	
Petrolia Station 5	Petrolia, ON	519-882-2442	
Watford Station 6	Watford, ON	519-882-2442	
Forest Station 7	Forest, ON	519-882-2442	
Thedford Station 8	Thedford, ON	519-882-2442	
Grand Bend Station 9	Grand Bend, ON	519-882-2442	
Municipality of Chatham-Kent <u>Note</u> : Under the direction of the Assistant Chief of Emergency Medical Services/Emergency Management the ambulance service is contracted to Medavie EMS Ontario. 6 ambulance bases provide 24-hour coverage to the entire municipality.	Chatham, ON	519-436-3270	



Agency	Location	Telephone Number
Municipal Fire Departments	Ontario-Wide	911
County of Essex		
LaSalle Fire Services	LaSalle, ON	519-966-1711
Townsh Fire Doorse Comise	Tagungach ON	519-255-6478
Tecumseh Fire Rescue Service	Tecumseh, ON	(Windsor Dispatch)
Lakeshore Fire Department		
 Station #1 	Emeryville, ON	
 Station #2 	Maidstone, ON	F10 2FF C470
 Station #3 	Belle River, ON	519-255-6478
 Station #4 	Ruscom, ON	(Windsor Dispatch)
• Station #5	Comber, ON	
Amherstburg Fire Department		
 Station #1 		519-736-6500
 Station #2 	Amhertsburg, ON	519-736-5733
 Station #3 		519-736-6500
Essex Fire and Rescue Services		
 Station #1, Essex 		519-776-7132
 Station #2, Gesto 	Essex, ON	519-776-6476
 Station #3, Harrow 		519-738-2567
Kingsville Fire Department	Kingsville, ON	519-733-2314
Leamington Fire Services	Leamington, ON	519-326-6291
County of Lambton	Wyoming, ON	519-845-0801
City of Sarnia		
 Station #1 		
 Station #2 		
 Station #3 	Sarnia, ON	519-332-1122
 Station #4 		
• Station #5		
City of Windsor		
 Station #1 		519-253-3016
 Station #2 		519-253-6573
 Station #3 	Windsor, ON	(admin and non-
 Station #4 		emergency line)
 Station #5 		
 Station #6 		
 Station #7 		



Agency	Location	Telephone Number		
Municipality of Chatham-Kent				
<u>Note</u> : Chatham-Kent Fire and Emergency Services Department is comprised of 23 communities and 19 Fire Stations.	Chatham-Kent, ON	519-436-3270		
Volunteer Fire Departments	Ontario-Wide	911		
Township of St. Clair	St. Clair, ON	519-481-0111		
Ontario Provincial Police / Local Police				
<u>Note</u> : 911 is used to reach Emergency Services for Lambton, Kent and Essex Counties. Notify the 911 operator of what county the emergency is in and give an exact location using the nearest municipal address or GPS coordinates and the emergency service(s) required.				
To report an emergency in the USA from Canada, dial 1-810-985-8115 to get the USA 911 operator.				
Ontario Provincial Police (OPP)/Local Police (Sarnia/Windsor)	Sarnia / Windsor, ON	911		
Hospitals	Ontario-Wide	911		

Ontario Provincial Police (OPP)/Local Police (Sarnia/Windsor)	Sarnia / Windsor, ON	911	
Hospitals	Ontario-Wide	911	
Sarnia Bluewater Health	Sarnia, ON	519-464-4400	
Charlotte Eleanor Englehart Hospital	Petrolia, ON	519-882-4325	
Windsor Regional Hospital Metropolitan Campus Ouellette Campus	Windsor, ON	519-254-5577 Ext. 52222 519-254-5577 Ext. 34401	
Chatham-Kent Health Alliance Chatham Campus Wallaceburg Site	Chatham, ON Wallaceburg, ON	519-352-6400 519-352-6400	



9.7.7 Lead Agencies

FEDERAL

The PMC Eastern Area Pipeline is regulated by the Canada Energy Regulator (CER).

Note: If an emergency occurs at this CER-regulated operation, PMC will initiate its emergency response plan, immediately contact the TSB's Hot Line to report all pipeline incidents and occurrences and complete the CER/TSB Online Event Reporting System (OERS) at <u>https://apps.cer-rec.gc.ca/ers/home/index</u>

Through the provincial reporting method, courtesy notification should be given to the provincial regulator.

Agency	Location	Telephone Number
Canada Energy Regulator (CER)		
Transportation Safety Board of Canada (TSB) 24-Hour Emergency Hot Line	Ottawa, ON	1-819-997-7887
Note: First lead agency call to be made		
24-Hour CER Incident Cellular Telephone	Calgary, AB	403-299-2773
Note: If unable to reach the TSB Hot Line, call this contact		

ONTARIO

<u>Note</u>: If an emergency occurs in Ontario at this CER-regulated operation, PMC will initiate a courtesy notification to the Ontario Energy Board (OEB) and also notify the other Ontario lead agencies listed below.

Agency	Location	Telephone Number					
Ontario Energy Board (OEB)	Ontario Energy Board (OEB)						
Daytime Only – Non-emergency Line	North America-wide	1-877-632-2727					
<u>Note</u> : The Ontario Energy Board (OEB) has no 24-hour emergency reporting protocol. Contact the Ministry of Community Safety and Correctional Services – Emergency Management Ontario (EMO), Ministry of Environment and Climate Change - Spills Action Centre, and the Ontario Ministry of Natural Resources and Forestry.							
Ministry of the Solicitor General – Emerger	ncy Management Ontario (E	MO)					
24-Hour Emergency	Ontario-wide	1-866-517-0571					
Ministry of Environment and Climate Change - Spills Action Centre							
Environmental and Spill Reporting Line (24-Hour Emergency)	Ontario-wide	1-800-268-6060					



9.7.8 Local Authorities

Agency	Location	Telephone Number
County of Essex Office (Daytime only)	Essex, ON	519-776-6441
Town of Tecumseh 24-hour	Tecumseh, ON	519-255-6478
Town of Lakeshore 24-hour	Belle River, ON	519-255-6478
Town of LaSalle 24-hour	LaSalle, ON	519-966-1711
County of Lambton Office (Daytime only)	Wyoming, ON	519-845-0801
City of Sarnia – Police Service Office (Daytime only) After Hours	Sarnia, ON	519-334-8861 519-344-8861, Ext. 5206
St. Clair Township Office (Daytime only)	Corunna, ON	519-867-2021
Municipality of Chatham-Kent 24-hour	Chatham, ON	519-436-3270
City of Windsor – 24-hour (Fire department) Fire and Rescue Dispatch (Emergency Pager) Steve Laforet, Fire Chief	Windsor, ON	519-253-3016 519-258-4444 519-253-3016, Ext. 253
Port of Windsor		
Peter Berry Harbour Master - Windsor Port Authority		519-258-5741, Ext. 211 519-562-3032 (cell)
Paolo DiCarlo Staff Sergeant	Windsor, ON	519-255-6700, Ext. 4008 226-345-4919 (cell)
Jamie Smith Staff Sergeant		519-735-2424 519-999-0342 (cell)
Aamjiwnaang First Nations Sarnia Indian Reserve No. 45 Office (Daytime only) Wilson Plain Jr. (Emergency Management Coordinator)	Sarnia, ON	519-336-8410 519-330-8749 (Wilson Plain Jr. cell)



9.7.9 Supporting Agencies

<u>Note</u>: Depending upon the type of incident, PMC will initiate notification to the following federal and provincial supporting agencies.

Agency	Location	Telephone Number			
Ministry of Labour, Immigration, Training and Skills Development					
Toll-free					
Office	Ontario-wide	905-577-9774			
Technical Standards and Safety Authority (TSSA)					
Office - Monday to Friday from 8:00 a.m. to 5:00 p.m. (excluding major holidays)	Ontario-wide	1-877-682-8772			
Electrical Safety Authority (ESA)					
Office	Ontario-wide	1-877-372-7233			
Ministry of Natural Resources and Forestry					
Office Wildlife Management Units: 93A, 94A, 94B	Ontario-wide	1-800-667-1940			
Ministry of Transportation					
Office	Ontario-wide	1-800-268-4686			
Ministry of Health and Long-term Care – Health Units					
Lambton Health Unit Toll-free	Point Edward, ON	519-383-8331 1-800-667-1839			
Chatham - Kent Health Unit	Chatham, ON	519-352-7270			
Windsor-Essex County Health Unit Toll-free	Windsor, ON	519-258-2146 1-800-265-5822			
Workplace Safety and Insurance Board (WSIB)					
Office Toll-free	Ontario-wide	416-344-1000 1-800-387-0750			
Environment Canada & Climate Change - National Environment Emergencies Centre					
<u>Note</u> : Refer to Section 8: Government Agencies and Local Authorities, in the PMC Core Emergency Response Plan, for the Ontario Incident, Spill, and Release Reporting Requirements, which identifies who, what, where, when, why and how an environmental emergency is to be reported.					
Ministry of Environment and Climate Change - Spills Action Centre	Ontario-wide	1-800-268-6060			



Agency	Location	Telephone Number				
CANUTEC ¹						
<u>Note</u> : As required, in the event of an emergency involving d	angerous goods, call CANU	TEC.				
Emergency (24 hour)		1-888-CAN-UTEC				
		(226-8832)				
	Ottawa, ON	613-996-6666				
If using cellular		*666				
Information		613-992-4624				
Department of Fisheries and Oceans Canada (DFO)						
Note: If there is a release into a water body of any substa	ance deleterious to fish, co	ntact Fisheries and Oceans				
Canada (only if fish bearing water body)						
Emergency (24 hour)	Canada-wide	1-800-889-8852				
Transport Canada						
Note: Transport Canada's Prairie and Northern Region (Wi	nnipeg Office) is responsibl	e for transportation safety				
throughout Alberta, Saskatchewan, Manitoba, Yukon, North	west Territories and Nunav	ut.				
Ottawa Situation Centre Emergency (24 hour)	Canada-wide	1-888-857-4003				
Office (Daytime only)	North York, ON	416-952-0490				
NAV CANADA (NOTAM – Notice to Airmen)						
24-hour	Canada-wide	1-877-992-6853				
24-11001	Callaud-wide	1-866-541-4102 ²				
Canadian Coastguard						
Sarnia Office	-	1-800-265-0237				

9.7.9.1 United States – Cross Border Contacts

Agency	Location	Telephone Number
Michigan Pollution Emergency Alerting System (PEAS)	Michigan-Wide	1-800-292-4706
Michigan Department of Environmental Quality (DEQ)	Michigan-Wide	517-284-7272 1-800-292-4706 (Petroleum or Hazardous substances from USTs on land or into water)
Michigan Bureau of Fire Services	Michigan-Wide	517-241-8847 (Petroleum or hazardous substances from USTs on land or into water)
National Response Centre	USA-wide	800-424-8802 (National Response System and staffed 24 hours a day by the U.S. Coast Guard)

¹ CANUTEC is the Canadian Transport Emergency Centre operated by the Transportation of Dangerous Goods (TDG) Directorate of Transport Canada. This is a federal emergency service based in Ottawa, ON. CANUTEC provides immediate reference for information on chemical spills and will also advise on methods to safely neutralize, decontaminate, approach or handle dangerous substances.

² One common toll-free phone number automatically directs you to a Flight Information Centre in the service area from which the call originates.

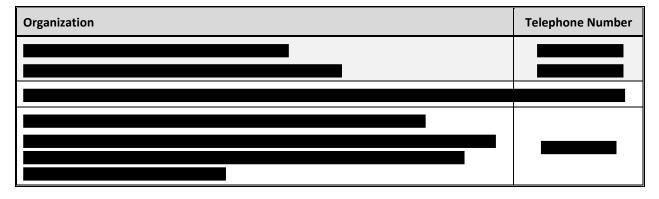


9.8 External Support Organizations

9.8.1 Spill Co-Op Information

Refer to Environmental Service Companies (Spill Response/Clean-up) in Support Services Section 9.9.

9.8.2 Mutual Aid





9.8.3 Utilities

Utility	Telephone Number
Essex Power – Enwin Utilities (24 hour)	519-255-2727
Independent Electricity System Operator (IESO)	416-967-7474
Enbridge Gas	1-877-969-0999

9.8.4 Other Organizations

Organization	Telephone Number
CHEMTREC	
<u>Note</u> : PMC also has a contract in place with CHEMTREC, a 24/7/365 emergency call center that provides immediate information and assistance in the event of a chemical or hazardous material incident related to the transportation of dangerous goods.	1-800-424-9300

Organization	Location	Telephone Number
Ontario Poison Centre	Ontario-wide	1-800-268-9017
Ontario One Call (Click or Call Before You Dig.)	Ontario-wide	1-800-400-2255



9.9 Support Services

Company ³	Location	Telephone Number
Aviation Support		·
SkyWatch	Waterloo, ON	419-606-0370
Zimmer Air Services Inc.	Blanksim ON	1-800-665-5485
	Blenheim, ON	519-676-9550
Construction Companies		
B&D Insulation/Sarnia Construction Association	Sarnia, ON	519-344-5287
CIMS (formerly Chemfab)	Corunna, ON	519-862-1433
Curran Contractors Ltd.	Sarnia, ON	519-332-3610
GHD	Waterloo, ON	519-884-0510
LamSar Industrial Contractors Inc.	Sarnia, ON	519-332-5010
Murray Mills Excavating	Sarnia, ON	519-312-8923
Sterling Crane	Sarnia, ON	519-481-0522
Mammoet Crane	Sarnia, ON	519-740-0550
Diving Companies		
ASI Group Ltd	Stoney Creek, ON	905-643-3283
Code de altre Marittime - Comitana luca	Taxanta ON	1-800-319-3556
Soderholm Maritime Services Inc	Toronto, ON	905-529-1344
O.D.S. Marine Construction	Greely, ON	613-821-3988
Emergency Equipment		
T.D. Williamson	Georgetown, ON	905-873-2272
TEAM Industrial Services	Sarnia, ON	519-344-9999
Electrical Service Companies		
Lockhart Electric Ltd.	Sarnia, ON	519-336-3250
Mellon Inc.	Sarnia, ON	519-332-0211
Tee-Jay Electrical & Instrumentation Services Ltd.	Sarnia, ON	519-332-8120
Rorison Industrial Electric	Windsor, ON	519-969-5270
Environmental Laboratories		
AGAT Laboratories	London, ON	519-652-6826
Caduceon Environmental Laboratories	Windsor, ON	519-966-9541
Lambton Scientific	Sarnia, ON	519-344-4747
Bureau Veritas	London, ON	1-800-268-7396
		519-652-9444
ORTECH Consulting	Sarnia, ON	519-336-3327
Environmental Service Companies (Spill Response/Clear	nup)	
Clean Harbors Canada Inc.	Sarnia, ON	1-800-645-8265
Dillon Consulting	Windson ON	1-877-934-5566
	Windsor, ON	519-948-5000
Eastern Canada Response Corporation (ECRC)	Corunna, ON	519-862-2281
US Ecology	Tilbury, ON	1-888-682-2900
GHD	Waterloo, ON	519-884-0510
GFL	Corunna, ON	519-862-4591
Golder Associates	Windsor, ON	519-250-3733

³ Engage Supply Chain for approved vendors.

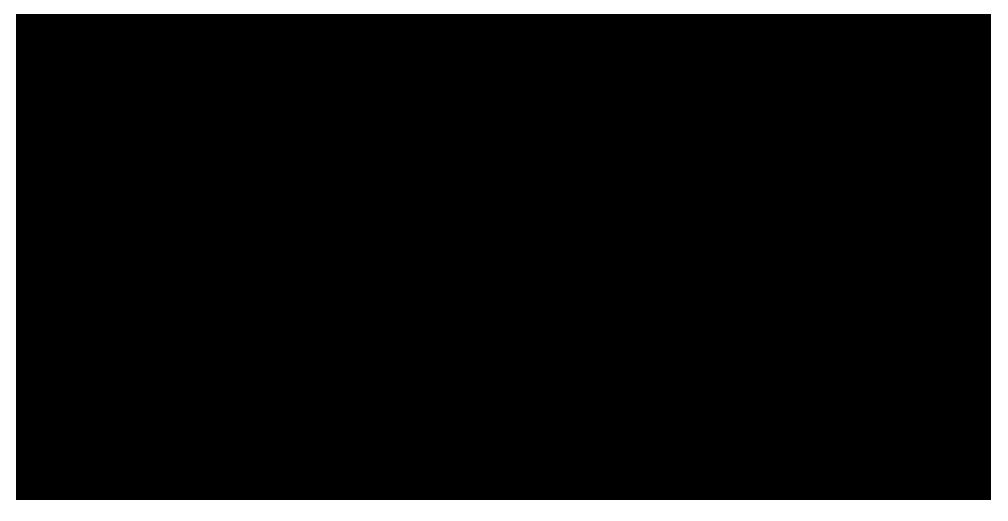


Company ³	Location	Telephone Number
SWAT Consulting	Strathmore, AB	1-866-610-7928
Waste Management of Canada	Ontario-wide	1-800-665-1898
Firefighting (Industrial)		
Levitt-Safety	Sarnia, ON (Daytime only)	519-336-8531
	Sarnia, ON (After hours)	1-888-453-8488
	Central Dispatch	1-888-346-8260
HSE Integrated Ltd.	Sarnia, ON	519-332-0044
	Stoney Creek, ON	905-664-0777
Hotels / Motels		
Sunbridge Hotel	1498 Venetian Boulevard Point Edward, ON	519-336-4130
Hampton Inn & Suites	1840 Huron Church Road Windsor, ON	519-972-0770
Holiday Inn Hotel & Suites Windsor (Ambassador Bridge)	1855 Huron Church Road Windsor, ON	519-966-1200
Ignition Services		
SRS	Sarnia, ON	1-877-506-0025
Mobile Air Monitoring Services		
US Ecology	Tilbury, ON	1-888-682-2900
GHD	Waterloo, ON	519-884-0510
HSE Integrated Ltd.	Servie ON	1-888-346-8260
	Sarnia, ON	519-332-0044
ORTECH Consulting	Sarnia, ON	519-336-3327
Safety Services		
AECOM	Barrie, ON	705-721-9222
	Central Dispatch	1-888-346-8260
HSE Integrated Ltd.	Sarnia, ON	519-332-0044
	Stoney Creek, ON	905-664-0777
Total Safety Services	Sarnia, ON	519-337-6181
Blackline Safety Operations Centre (SOC)	Calgary, AB	1-877-869-7212
Vacuum Trucks		-
Badger Daylighting	Sarnia, ON	519-332-7011
Clean Harbors Canada Inc.	Sarnia, ON	1-800-645-8265
GFL	Corunna, ON	519-862-4591
Valves		
TEAM Industrial Services	Sarnia, ON	519-344-9999
Lambton Alloys	Sarnia, ON	519-339-9733
Professional Valve Service	Sarnia, ON	519-336-3933



9.10 Technical Data

9.10.1 Pipelines











Lastern Area i ipenne Emergency Response i lan



Lastern Alca I	



9.10.1.2 Block Valves

J.10.1.2 DIOCK VAIVES	







9.10.2 Facilities

9.10.2.1 Facilities



9.10.3 Wells / Caverns

This section is not applicable to the EAP ERP.

9.10.4 Rail Terminal

This section is not applicable to the EAP ERP.

9.10.5 Major Accident Risk (MAR) Scenarios

This section is not applicable to the EAP ERP.



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9.11 Public Information Handout (PIH)

Potential Health Effects from HVP Products Exposure

Skin	Irritation of skin may occur and progress to dermatitis. One component, benzene, may be absorbed through the skin
Eyes	Irritation of eyes may occur.
Breathing	Breathing mists or vapours may cause accumulation in the lungs and/or central nervous system depression, dizziness, headaches, giddiness, drowsiness, fatigue, nausea, unconsciousness or death.
Swallowing	Swallowing mists or vapours may cause accumulation in the lungs and/or central nervous system depression, dizziness, headaches, giddiness, drowsiness, fatigue, nausea, unconsciousness or death.
Long-term Hazards	Defating and drying of skin may occur and cause dermatilis. Inhalation of one component, benzene, has been associated with blood disorders including anemia and leukemia. Repeated exposure to high vapour cov-entrations may cause syspand gait maissai about ginal psi, stoggad gait maissai about ginal psi, stoggad gapetite, liver damage, kidney damage, and damage to the bone marrow including cancer.

Potential Health Effects from LVP Products Exposure

Skin	This product is a moderate skin irritant and repeated or prolonged contact may defat the skin.
Eyes	This product is a moderate eye irritant and could cause (days) impairment to your vision.
Breathing	Potential effects target the Central Nervous System, liver and kidneys. The benzene component is a known human carcinogen that may result in aplastic anemia and leukemia. Symptoms may include coughing, lichy throat, dizziness and drowsiness.
Swallowing	If ingested, abdominal cramping, vomiting and diarrhea may occur. Aspiration of liquid into the lungs may cause chemical pneumonia, severe lung damage.
Chronic Effects	Potential chronic effects include peripheral neuropathy and blurred vision. Chronic exposure has resulted in aplastic anemia, acute myoblastic leukemia, bone marrow depression, corneal vacuolization erythroleukemia, and even death.
Carcinogenicity	Known Carcinogen NTP, Known Human Carcinogen IARC Group 1 proven and Confirmed Human Carcinogen ACGIH A1. Ethylbenzene is classified as a Possible Carcinogen IARC 2B.

Response Considerations Health, Safety and Environment

Plains adheres to the highest health, safety and environmental standards throughout our organization. We provide a workplace that protects the health and safety of our employees, contractors and the communities surrounding our facilities.

Plains' operations are subject to stringent federal, provincial and local laws and regulations governing the discharge of materials into the environment or otherwise related to protecting the environment.

Our Health, Safety and Environment (HSE) Management Programs are at the core of our operations. These programs include management commitment and leadership, employee training and awareness, inspections and audits, performance and achievement recognition, emergency preparedness and response, communications and continuous improvement.

Notification

If you are contacted by Plains Midstream Canada to advise you of an emergency situation, the caller will:

- · Identify themselves by name.
- Announce that they are a Plains Midstream Canada representative.
- Describe the problem and what is being done.
- Give you instructions to protect your safety (shelter / evacuation).
- Verify the information you have provided.
 Address any concerns which you may have.
- Address any concerns which you may have.
 Provide a telephone number which you can call to get additional information.

Emergency Contacts

If you suspect a problem at a Plains facility in your area, please call Plains Midstream Canada's 24-hour Emergency Response number:

1-866-875-2554

emergency.management@plains.com

In the event of an emergency, Plains will be working with the Transportation Safety Board (TSB), Canada Energy Regulator (CER), and local authorities.

Canada Energy Regulator (CER)

	Ambulance/Police/Fire	9-1-1
	Aamjiwnaang First Nations	519-336-8410
	City of Windsor-Emergency Management.	
	City of Windsor	519-225-2489
	Municipality of Chatham-Kent	
	St. Clair Township	519-867-2021
	City of Sarnia—Police Service	
	County of Lambton	519-845-0801
	Town of LaSallee	519-969-7770
	Town of Lakeshore	
	Town of Tecumseh	
	County of Essex.	519-776-6441
_ 1	Local Automites	





Public Awareness Information for landowners and area residents related to Plains Midstream Canada's Eastern Area Pipeline, Sarnia Fractionation Plant and Windsor Storage Facility.

- Emergency notification
- · Public protection measures
- Pipeline safety: Ontario One Call (Click or Call Before You Dig)

JUNE 2023





Our Operations In Your Area

Plains Midstream Canada ULC (Plains) is the operator of the Eastern Area Pipeline. The Eastern Area Pipeline bidirectionally transports a natural gas liquid (NGL) mix between the Plains Sarnia Fractionation Plant and Plains Windsor Storage Facility. The respective Emergency Planning Zone (EPZ) for the Eastern Area Pipeline is 1.1 km. Operation of the facilities (Sarnia Fractionation Plant and the Windsor Storage Facility) includes storage of NGL's which is classified as High Vapour Pressure (HVP) including condensates which is classified as Low Vapour Pressure (LVP). As these storage tanks a contain substances in excess of threshold limits listed in Schedule 1 of the Canadian Environmental Protection Act (CEPA), an Environmental Emergency (E2) plans have been developed for the facilities to meet Environment and Climate Change Canada Environmental Emergency Regulations, 2019: SOR/2019-51. Included below is the calculated Emergency Planning Zones (EPZs), including the substances stored at each facility. Refer to the map on the back of this brochure for more details.

PMC Sarnia Fractionation Plant E2 Regulated Substances: Crude Oil, Isobutane, Condensate, Ethane, Ethyl Mercaptan, Butane, NGL and Propane. Emergency Planning Zone: 1200 m

PMC Windsor Storage Facility E2 Regulated Substances: Propane, Butane, Ethyl Mercaptan, Ethane Emergency Planning Zone: 460 m

High Vapour Pressure (HVP) Products

HVP products include propane, butane, pentane, and Natural Gas Liquids (NGLs). At atmospheric pressure, HVP products are gases. Under pressure, HVP products exist in a liquid state. In humid air, a leak of an HVP product may form a visible white cloud of cold vapour considerably heavier than air. Under extreme conditions, pools of super-cooled liquid may briefly form. When HVP products vapourize, they expand (70 to 300 times) and can form a plume, which may drift downwind from the source under moderate wind speed conditions. Under higher wind speed conditions, the vapour would dissipate faster.

Main Hazards:

- Potential explosion hazards from delaying ignition of drifting vapour cloud.
- Fire hazard from burning gas and radiant heat. Critical hazard because of oxygen deficiency as expanding gas cloud or plume displaces air at ground level.



Low Vapour Pressure (LVP) Products

LVP products are generally limited to hydrocarbon condensate which remains in a liquid state at atmospheric pressure. LVPs are heavier than air and collect in low places or depressions in the ground. LVPs are clear, pale golden flammable liquids with an odour similar to gasoline.

Main Hazards:

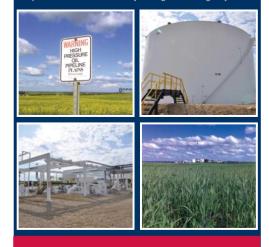
- Fire hazard and intense heat if condensate is ignited.
 Potential explosion hazards if condensate vapours seep into enclosed areas.
- Contamination of soil and water.
- Products can flow under snow or ice, making the actual spill area larger than it appears.
- Breathing mists or vapours may cause accumulation in lungs and/or central nervous system resulting in dizziness, headaches, depression, giddiness, drowsiness, fatigue, nausea, unconsciousness or death.

If You Suspect a Problem

Please call Plains Midstream Canada's 24-hour emergency number if you suspect a problem (1-866-875-2554).

While the chance of an uncontrolled spill or problem is remote, the Plains Emergency Response Plan (ERP) for this area is in place to ensure your safety. If a leak should occur, emergency crews will take immediate steps to minimize the risk to the public and environment.

Additional emergency response personnel will be notified and dispatched to the area to safely manage the emergency.



Plains Midstream Canada 24-hour Emergency Number 1-866-875-2554

Public Protection Measures Evacuation and Shelter Procedures Evacuation Procedures

If it is necessary to evacuate, you will be contacted by telephone immediately. If there is no answer to our calls, we will proceed to your residence to inform you of the situation. The following steps should be taken if "Evacuation" procedures have been implemented:

- Gather all residents and bring any medicines required.
- Lock all windows and doors
- Turn down thermostat and shut off any air exchange fans to outside.
- Drive safely on the route provided and proceed directly to the evacuation centre and check in with the representative.
- Wait for further instruction
- Shelter-in-Place Procedures

If you are advised to stay sheltered, do not leave your house or attempt to start any vehicles until a Plains representative advises you that it is safe to do so. The following steps should be taken if "Shelter-In-Place" procedures have been implemented:

- Immediately gather everyone indoors and stay there.
- Tightly close and lock all windows and outside doors, if convenient, tape any gaps around exterior door frames.
- Extinguish indoor wood-burning fires and close flue dampers if possible.
- Turn off appliances or equipment that either blows out or uses indoor air, such as:
 - Furnaces, built-in vacuum systems, gas stoves, kitchen fans, clothes dryers, air conditioning, bathroom fans, gas fireplaces, ventilators.
- Turn off appliances or equipment that suck in outdoor air, such as:
 - Heating, ventilation, and air conditioning (HVAC) systems
 - Fans for heat recovery ventilators or energy recovery ventilators
 - Turn down furnace thermostats to the minimum setting, turn off air conditioners
 - Leave all inside doors open.

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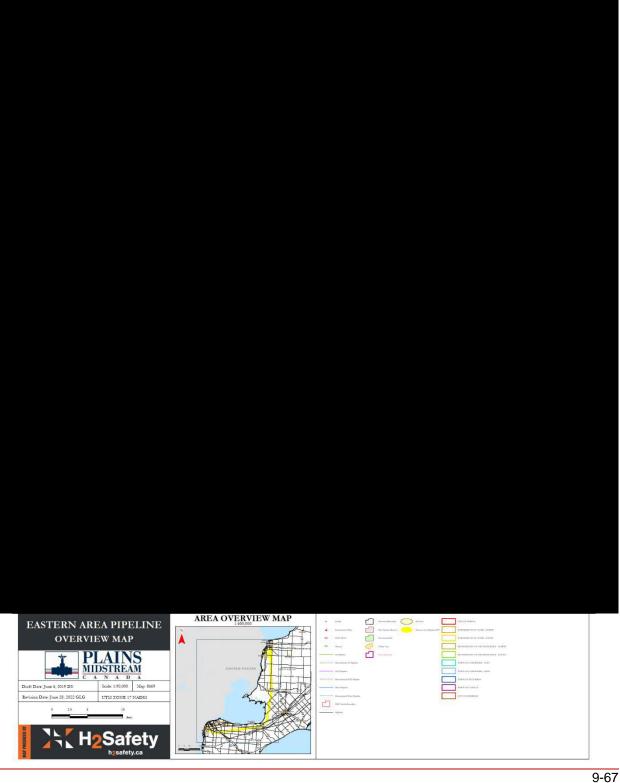
- · Wait in an interior room upstairs for further instruction.
- Avoid using the telephone, except for emergencies, so that you can be contacted by Plains emergency response personnel.
- Call Plains if you are experiencing symptoms, smelling odours or have contacted government
- agencies (so the response can be coordinated).
- Stay tuned to local radio and television for possible information updates.
- Even if you see people outside, do not leave until told to do so
- If you are unable to follow these instructions, please notify Plains emergency response personnel.

After the hazardous substance has passed through the area you will receive an "all-clear" message from Plains emergency response personnel. You may also receive, if required, instructions to ventilate your building by:

Opening all windows and doors, turning on fans, turning up thermostats

During this time the air outside may be fresher and you may choose to leave your building while ventilating. Once the building is completely ventilated, return all equipment to normal settings and operation.







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AREA OVERVIEW MAP EASTERN AREA PIPELINE CITY OF SARNIA E2 Zone Provincial Boundary Facility N 1 Eastern Area Pipeline EPZ First Nations Reserve TOWNSHIP OF ST. CLAIR - NORTH Fractionation Plant **OVERVIEW MAP** POINT EDWARD Provincial_Park HOV/MOV TOWNSHIP OF ST. CLAIR - SOUTH ARNIA NS Urban Area MUNICIPALITY OF CHATHAM-KENT - NORTH Manual V ETROLI **MIDSTREAM** UNITED STATES Local Authority ONTARIO Oil Pipeline MUNICIPALITY OF CHATHAM-KENT - SOUTH **CANADA** TOWN OF LAKESHORE - EAST Discontinued Oil Pipeline Scale: 1:90,000 Map: 8669 Draft Date: June 6, 2019 DS DRESDEN HVP Pipeline TOWN OF LAKESHORE - WEST Revision Date: Sept 18, 2023 ET UTM ZONE 17 NAD83 . A. Charl TOWN OF TECUMSEH Discontinued HVP Pipeline 0 2.5 5 10 TOWN OF LASALLE Water Pipeline (km) Horas CITY OF WINDSOR Discontinued Water Pipeline MAP PRODUCED BY PMC Facility Boundary 0 5 10 20 AMHERSTBURG - Highway



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	Fractionation Plant		= Bridge	~~~ Hydrology
CITY OF SARNIA	HOV/MOV	Other Roads	Communication Tower	Waterbody
EASTERN AREA PIPELINE	Manual	Railway	A Farm Use Area	🗗 Urban Area
T PLAINS	Third Party Pipeline	 Surface Development 	× Locked Gate	First Nations Reserve
MIDSTREAM	Oil Pipeline		Power Station	🗂 Provincial Boundary
	Discontinued Oil Pipeline		📅 Recreation Area	🗖 Health Authority
Draft Date: June 6, 2019 DS Scale: 1:35,000 Map: 8670			Staging Area	🗖 Local Authority
Revision Date: July 18, 2023 ET UTM ZONE 17 NAD83	Discontinued HVP Pipeline		😣 Rail Crossing	— E2 Zone
				💛 Eastern Area Pipeline EPZ
H2 Safety	Discontinued Water Pipeline			
h2safety.ca				

Y OF S	ARNIA	Fractionation Plant		= Bridge	-~ Hydrology
		HOV/MOV	Other Roads	Communication Tower	Distance Strength Str
RN AREA	PIPELINE	Manual	Railway	് Farm Use Area	루 Urban Area
	INS	Third Party Pipeline	 Surface Development 	× Locked Gate	First Nations Reserve
MIDS	FREAM	Oil Pipeline		Power Station	🗂 Provincial Boundary
CAN	A D A	Discontinued Oil Pipeline		📅 Recreation Area	🗖 Health Authority
s	Scale: 1:35,000 Map: 8670			S Staging Area	Local Authority
ET (JTM ZONE 17 NAD83	Discontinued HVP Pipeline		8 Rail Crossing	E2 Zone
	Cofoty			-	💛 Eastern Area Pipeline EPZ
	Safety	Discontinued Water Pipeline			

	0	0.5	1	:	2
					(km)

TOWNSHIP OF Facility ST. CLAIR - NORTH EASTERN AREA PIPELINE HOV/MOV Manual 🚺 **PLAINS MIDSTREAM** - Oil Pipeline ---- Discontinued Oil Pipeline N Α D Draft Date: May 28, 2019 DS Map: 8676 Scale: 1:50,000 - HVP Pipeline Revision Date: July 19, 2023 ET UTM ZONE 17 NAD83 Discontinued HVP Pipeline - Water Pipeline MAP PRODUCED BY Safety - Highway ---- Other Roads h2safety.ca ----- Railway

Third Party Facility

- Surface Development
- Airstrip
- ⊨ Bridge
- K Communication Tower
- 🔶 Dead End
- ് Farm Use Area
- × Locked Gate
- 🗴 Staging Area
- 😣 Rail Crossing

-Hydrology

≫ Waterbody

- First Nations Reserve
- 루 Urban Area
- 🖆 Provincial Boundary
- 📋 Oil and Gas Regulator
- Health Authority
- Local Authority
- RCMP
- Eastern Area Pipeline EPZ
- Egress EPZ





Manual CHATHAM-KENT - NORTH EASTERN AREA PIPELINE PLAINS MIDSTREAM - Highway ---- Other Roads N Α D Scale: 1:60,000 Map: 8709 Draft Date: May 28, 2019 DS Revision Date: July 19, 2023 ET UTM ZONE 17 NAD83 MAP PRODUCED BY Н Safety h2safety.ca

- ≍ Bridge
 - 🔶 Dead End
 - ് Farm Use Area
 - × Locked Gate
 - Power Station
 - Recreation AreaRail Crossing

≫ Waterbody

- First Nations Reserve
- 记 Urban Area
- 🖆 Provincial Boundary
- Health Authority
 Local Authority
 RCMP
 Eastern Area Pipeline EPZ
 Egress EPZ



Manual CHATHAM-KENT - SOUTH EASTERN AREA PIPELINE PLAINS MIDSTREAM - Highway ---- Other Roads - Railway N Α D Scale: 1:60,000 Map: 8710 Draft Date: May 28, 2019 DS Revision Date: July 18, 2023 ET TM ZONE 17 NAD83 **MAP PRODUCED BY** Н Safety h2safety.ca

- 🛛 Abandoned
- ≍ Bridge
- 🔶 Dead End
- ് Farm Use Area
- × Locked Gate
- Power Station
- 🛪 Recreation Area
- 😣 Rail Crossing

≫ Waterbody

- First Nations ReserveUrban Area
- Provincial Boundary
- Health Authority
 Local Authority
 RCMP
 Eastern Area Pipeline EPZ



Manual Highway Bridge Hydrology TOWN OF LAKESHORE - EAST ● Waterbody - HVP Pipeline ---- Other Roads Communication Tower EASTERN AREA PIPELINE 루 Urban Area ---- Railway A Farm Use Area PLAINS MIDSTREAM C A N A D A Provincial Boundary Surface Development × Rail Crossing 📕 Health Authority 🗖 Local Authority Draft Date: June 6, 2019 DS Scale: 1:50,000 Map: 8672 — E2 Zone Revision Date: July 18, 2023 ET UTM ZONE 17 NAD83 💛 Eastern Area Pipeline EPZ H₂Safety h2safety.ca

TOWN OF LAKESHORE - WEST EASTERN AREA PIPELINE PLAINS MIDSTREAM C A N A D A Draft Date: June 6, 2019 DS Revision Date: July 18, 2023 ET UTM ZONE 17 NAD83 UTM ZONE 17 NAD83

h2safety.ca

Manual HVP Pipeline

----- Highway ----- Other Roads

- ---- Railway
- Surface Development

\asymp Bridge

- Communication Tower
- 🔶 Dead End
- ് Farm Use Area
- × Locked Gate
- Power Station

Waterbody Urban Area Provincial Boundary

~~~ Hydrology

- Health Authority
- Local Authority
- E2 Zone
- 💛 Eastern Area Pipeline EPZ

| [ | 0 | 0.5 | 1 | 2    |  |
|---|---|-----|---|------|--|
|   |   |     |   | (km) |  |

# TOWN OF TECUMSEH EASTERN AREA PIPELINE PLAINS DELAINS Draft Date: June 6, 2019 DS Scale: 1:30,000 Map: 8675 Revision Date: July 18, 2023 ET UTM ZONE 17 NAD83

# H2Safety h2safety.ca

# Manual HVP Pipeline

# Highway ····· Other Roads

- ---- Railway
- Surface Development

# Communication Tower

- 🔶 Dead End
- A Farm Use Area
- Power Station
- 😣 Rail Crossing

# ~~~ Hydrology

- 루 Urban Area
- 🗂 Provincial Boundary
- Health Authority
- Local Authority
- E2 Zone
- 💛 Eastern Area Pipeline EPZ

|     | 0 | 0.5 | 1 | 2      |
|-----|---|-----|---|--------|
| - 1 |   |     |   | (i)    |
|     |   |     |   | (kili) |

# TOWN OF LASALLE EASTERN AREA PIPELINE PLAINS DIAL DATE: June 6, 2019 DS Scale: 1:30,000 Map: 8674 UTM ZONE 17 NAD83

h2safety.ca

# ► HOV/MOV ► Manual

- Highway ---- Other Roads
- ---- Railway
- Surface Development
- $\asymp$  Bridge
- Communication Tower
- 🔶 Dead End
- A Farm Use Area
- Power Station
- ℅ Rail Crossing
- Urban Area
  Protected Area
  Provincial Boundary
  Health Authority
  Local Authority

~~ Hydrology

● Waterbody

- Local Authority E2 Zone
- 💛 Eastern Area Pipeline EPZ

| 0 | 0.5 | 1 | 2    |
|---|-----|---|------|
|   |     |   | (km) |

### Facility Highway Bridge - Hydrology **CITY OF WINDSOR** ● Waterbody PMC Facility Boundary ---- Other Roads 🔶 Dead End EASTERN AREA PIPELINE HOV/MOV 루 Urban Area ── Railway × Locked Gate PLAINS MIDSTREAM M Manual Power Station Protected Area Surface Development 门 Provincial Boundary Third Party Pipeline 🛱 Recreation Area - HVP Pipeline Health Authority C A N A D A 😣 Rail Crossing Scale: 1:30,000 Map: 8671 Draft Date: June 6, 2019 DS Local Authority Revision Date: July 18, 2023 ET UTM ZONE 17 NAD83 — E2 Zone 🥏 Eastern Area Pipeline EPZ H<sub>2</sub>Safety h2safety.ca

| ( | ) 0 | .5 | 1 | 2 |      |
|---|-----|----|---|---|------|
|   |     |    |   |   | (km) |



# 9.12.2 Plot Plans

This section is not applicable to the EAP ERP. Refer to the Sarnia Fractionation Plant ERP or Windsor Storage Facility ERP for the applicable Facility Plot Plans.



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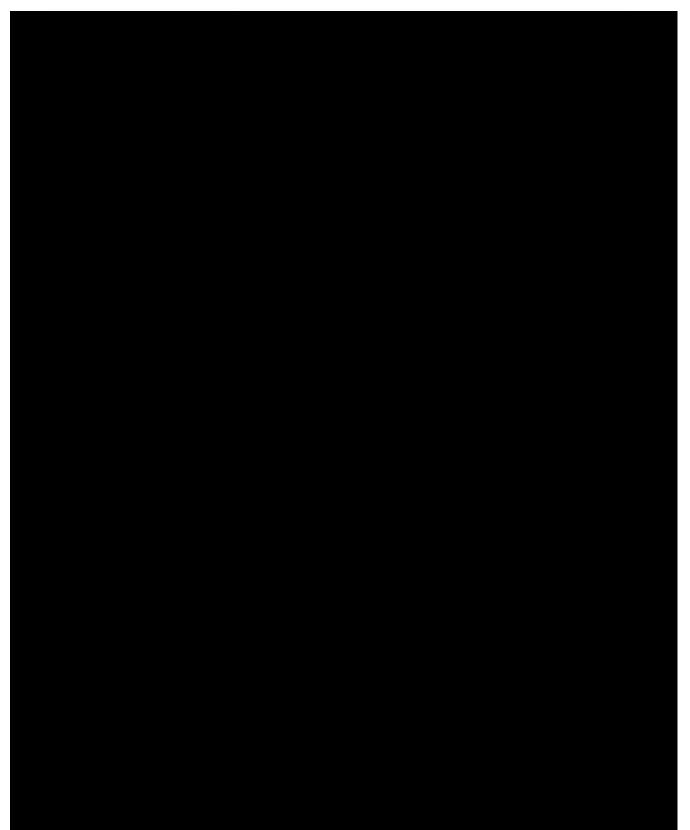
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# 9.12.2.2 EDS Pipeline BV-13 Location Plan



# 9.12.2.3 EDS Pipeline BV-12 Location Plan

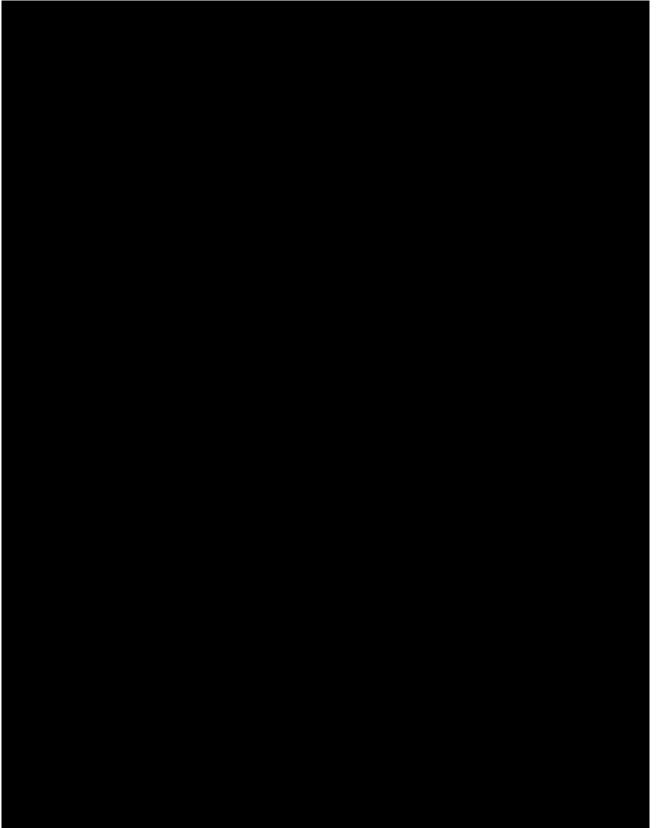




# 9.12.2.4 EDS Pipeline BV-11 Location Plan



# 9.12.2.5 EDS Pipeline BV-10 Location Plan





#### 9.12.2.6 EDS Pipeline BV-10A Location Plan



#### 9.12.2.7 EDS Pipeline BV-9 Location Plan



#### 9.12.2.8 EDS Pipeline BV-8 Location Plan



#### 9.12.2.9 EDS Pipeline BV-7 Location Plan

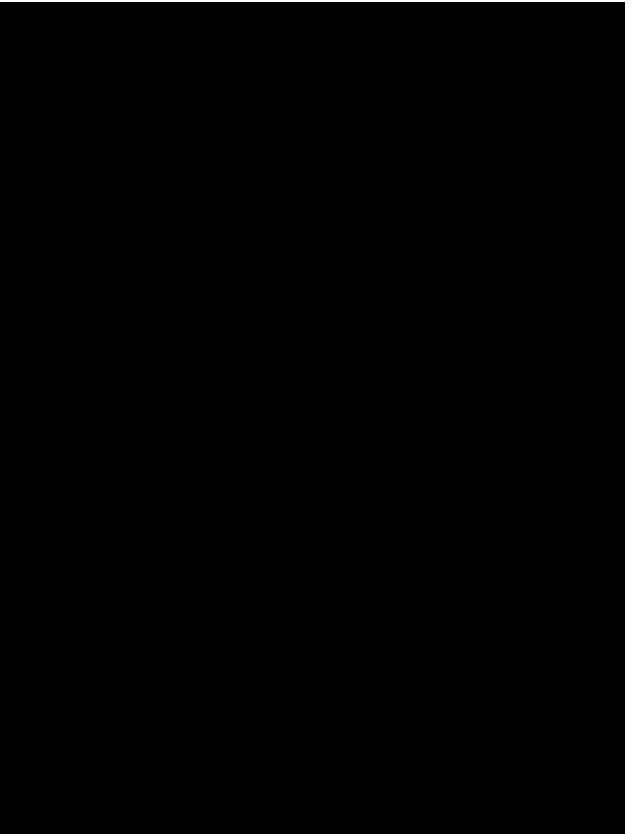




#### 9.12.2.10 EDS Pipeline BV-6 Location Plan



#### 9.12.2.11 EDS Pipeline BV-5 Location Plan





#### 9.12.2.12 EDS Pipeline BV-4 Location Plan





#### 9.12.2.13 EDS Pipeline BV-3 Location Plan





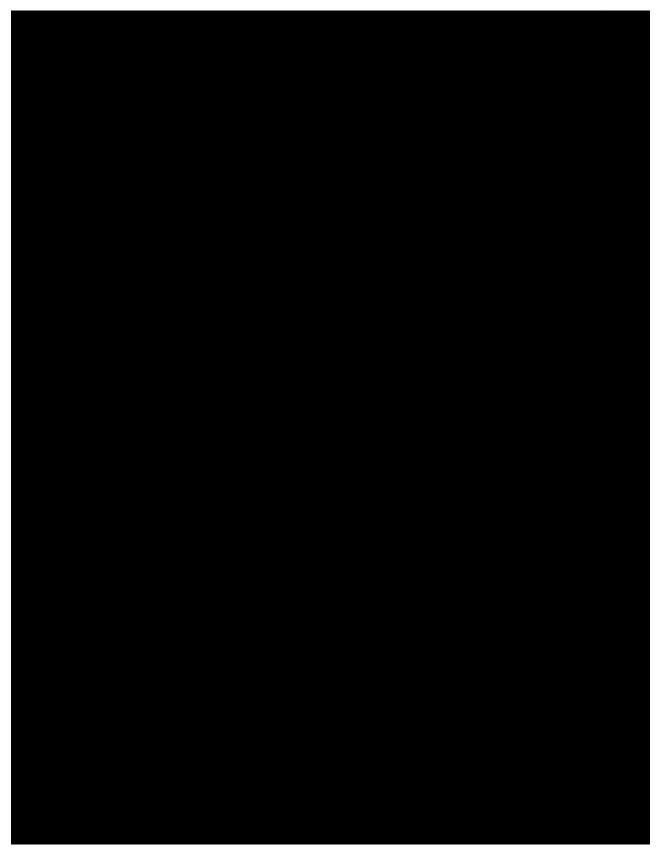
#### 9.12.2.14 EDS Pipeline BV-2 Location Plan



#### 9.12.2.15 EDS Pipeline BV-1 Location Plan

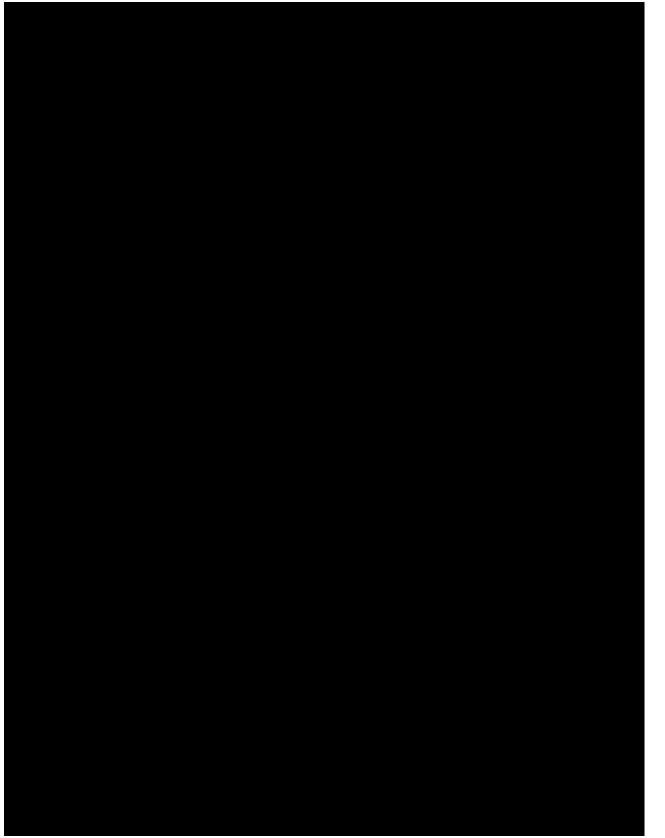


#### 9.12.2.16 Condensate Pipeline Highway 40 Location Plan



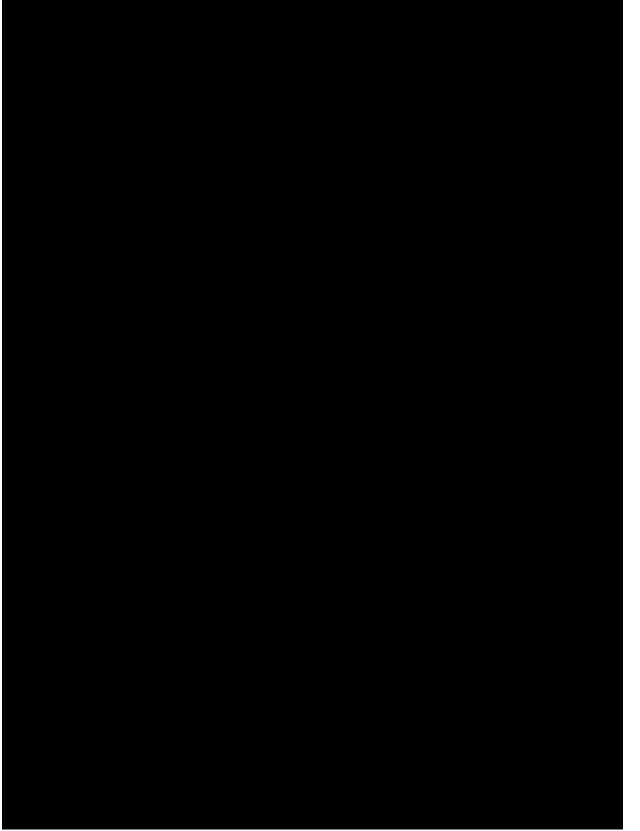


#### 9.12.2.17 EDS Pipeline Nova Lateral MOV 51, 52, 53 Location



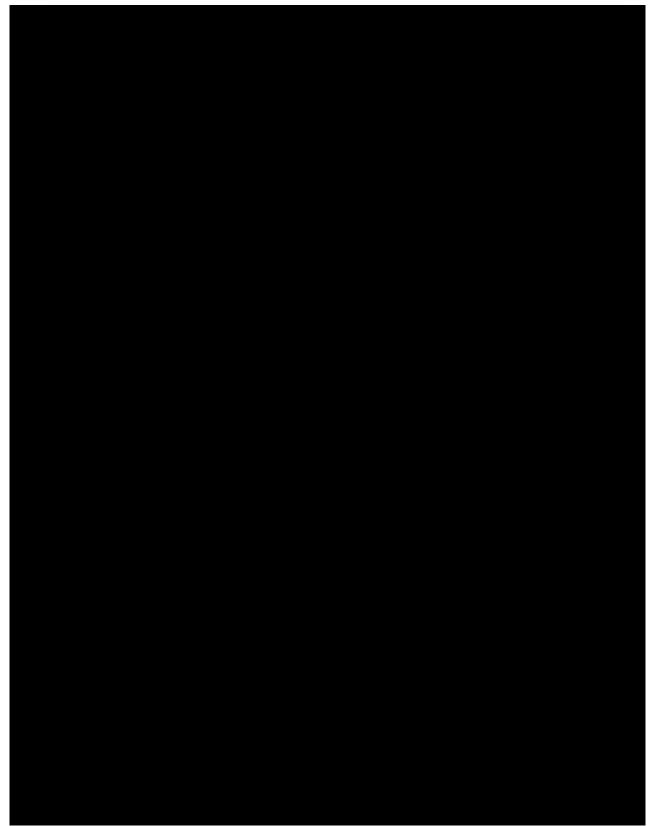


## 9.12.2.18 Condensate Pipeline Air Products Location Plan



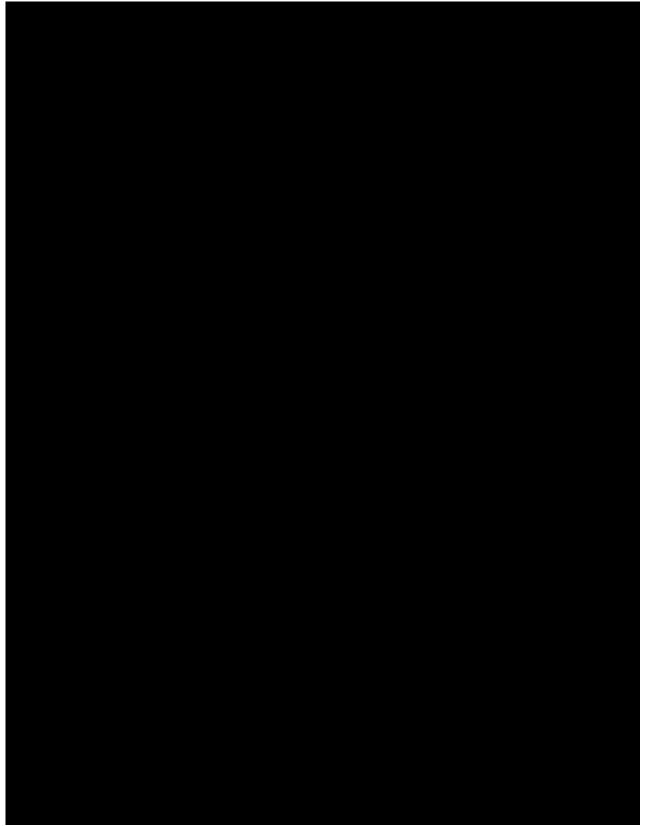


#### 9.12.2.19 8" NGL Kalkaska Pipeline Location Plan



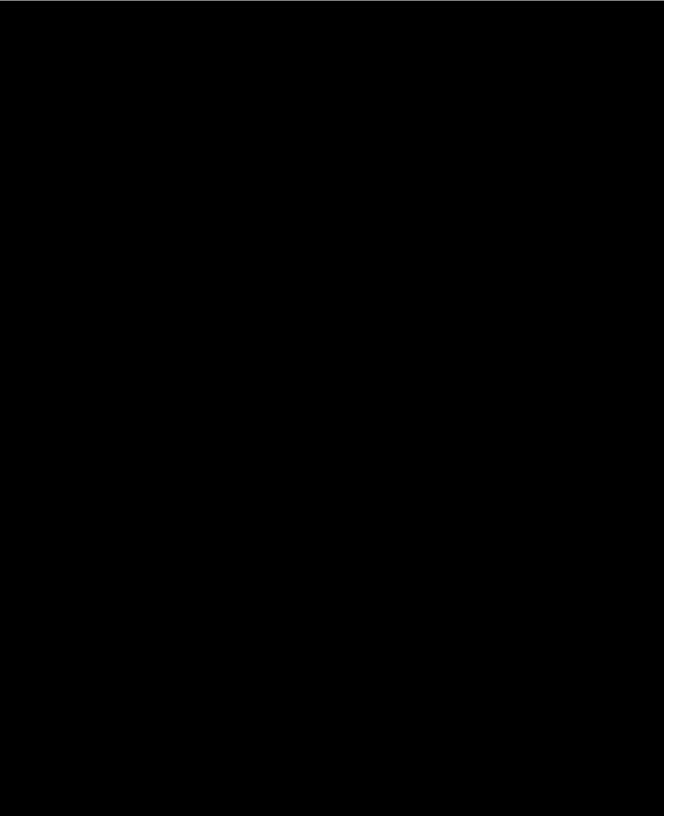


#### 9.12.2.20 EDS Pipeline Canadian Salt BV Location Plan





#### 9.12.2.21 WSP Pipeline BV-13 Location Plan





#### 9.12.2.22 WSP Pipeline BV-12 Location Plan

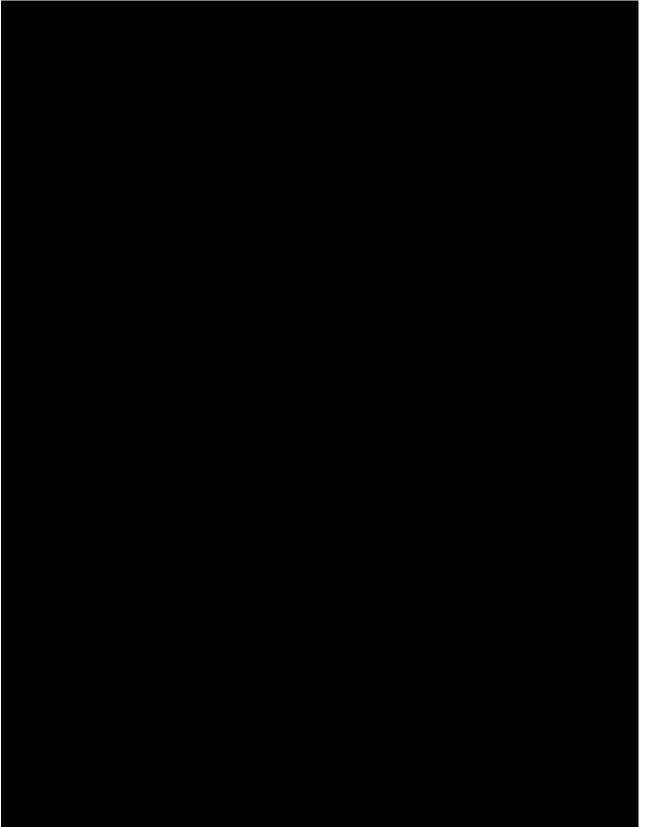


#### 9.12.2.23 WSP Pipeline BV-11 Location Plan





#### 9.12.2.24 WSP Pipeline BV-10 Location Plan





#### 9.12.2.25 WSP Pipeline BV-10A Location Plan



#### 9.12.2.26 WSP Pipeline BV-9 Location Plan



#### 9.12.2.27 WSP Pipeline BV-8 Location Plan



#### 9.12.2.28 WSP Pipeline BV-7 Location Plan



#### 9.12.2.29 WSP Pipeline BV-6 Location Plan





#### 9.12.2.30 WSP Pipeline BV-5 Location Plan



#### 9.12.2.31 WSP Pipeline BV-4 Location Plan





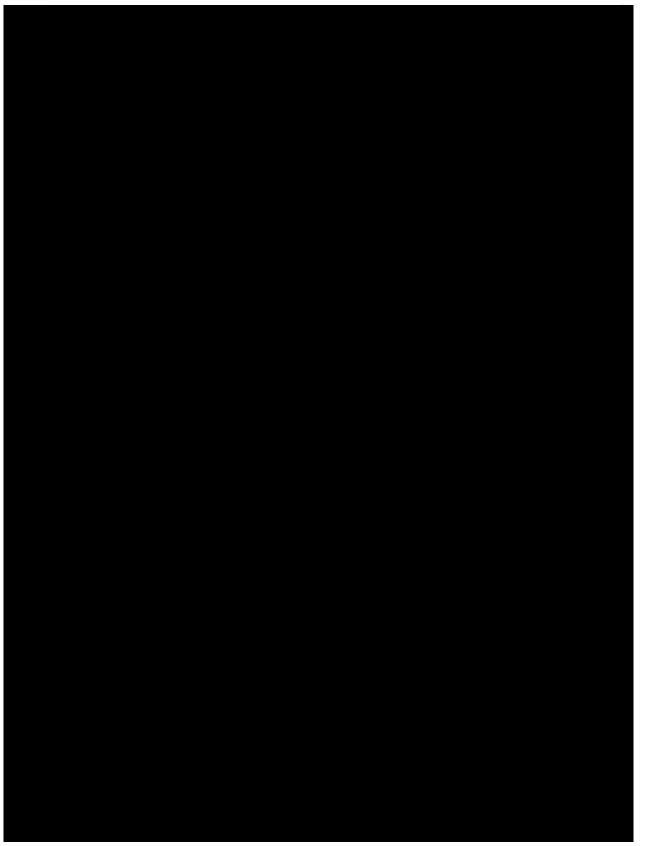
#### 9.12.2.32 WSP Pipeline BV-3 Location Plan



#### 9.12.2.33 WSP Pipeline BV-2 Location Plan

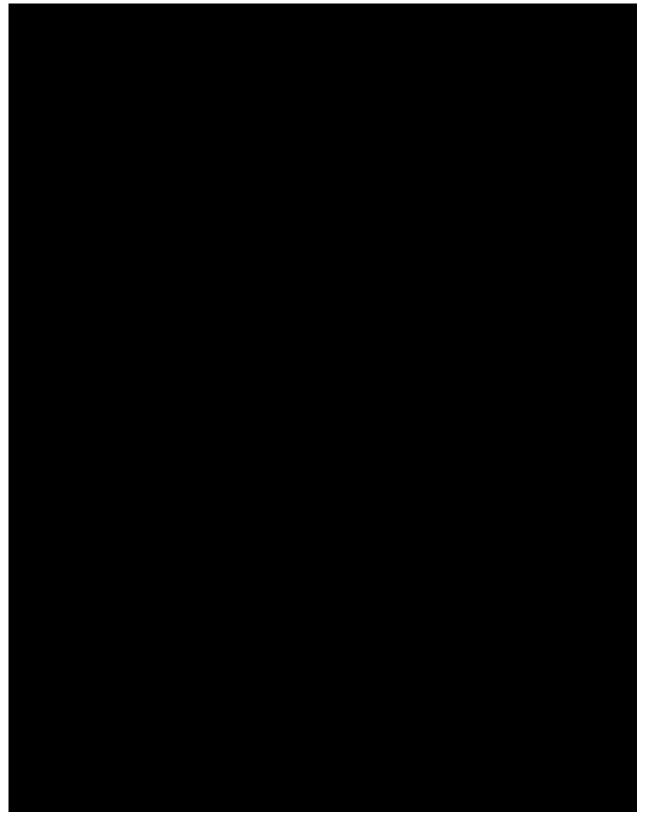


#### 9.12.2.34 WSP Pipeline BV-1 Location Plan



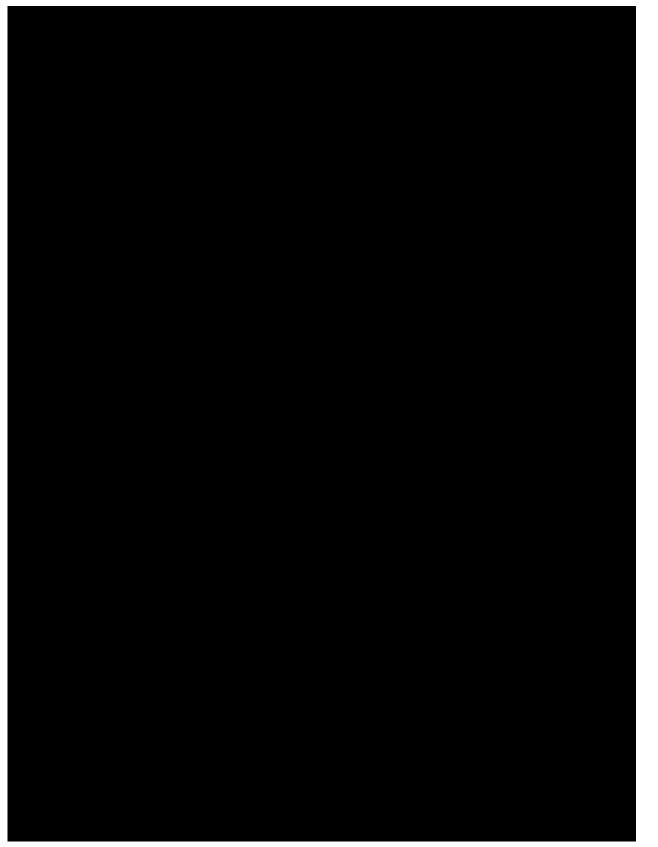


#### 9.12.2.35 WSP Pipeline Grande Pointe Mainline Location Plan



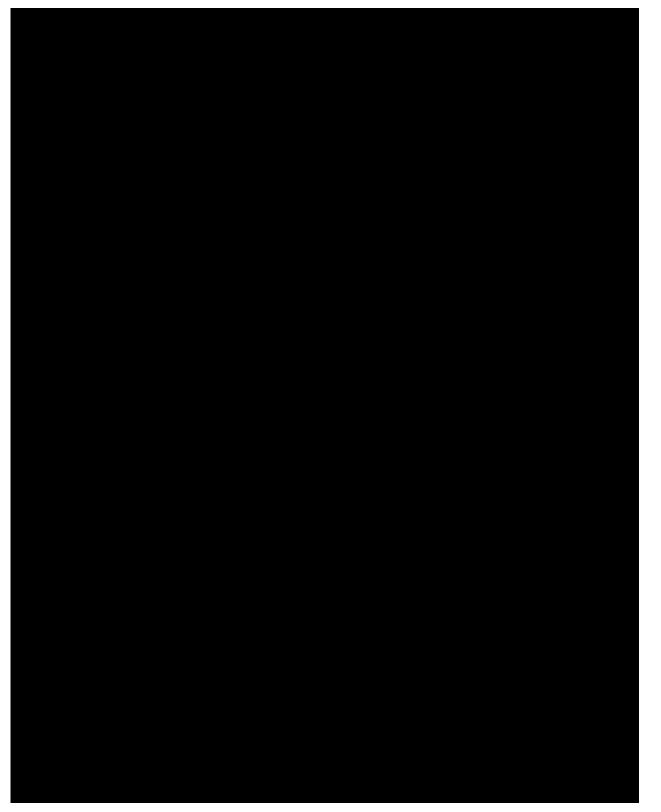


#### 9.12.2.36 WSP Pipeline Canadian Salt BV Location Plan



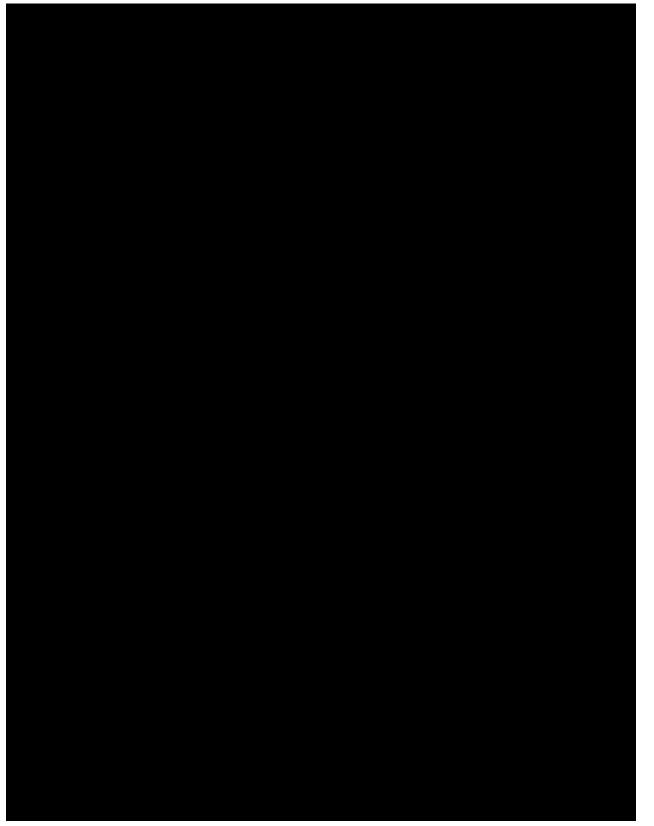


#### 9.12.2.37 8" LPG Pipeline MV-935A Location Plan



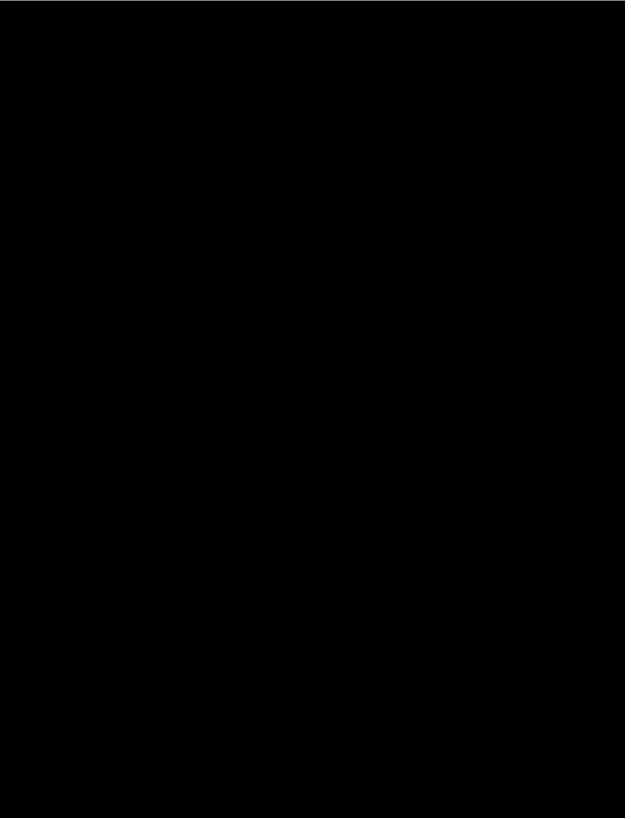


## 9.12.2.38 8" LPG Pipeline St. Clair River Crossing BV Location Plan





## 9.12.2.39 LPG St. Clair City BV Location Plan



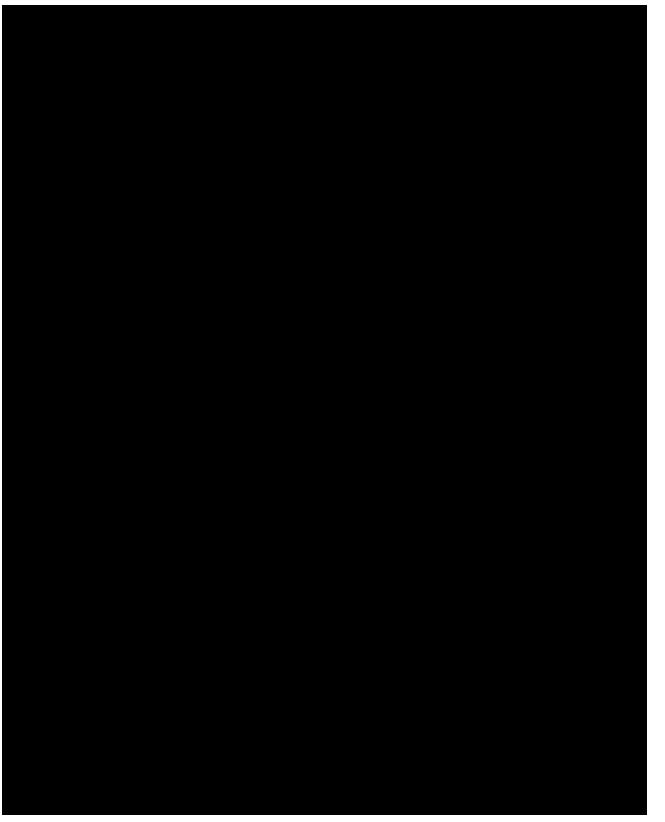


#### 9.12.2.40 NGL & Condensate Pipelines Cuttle Road Valve Station



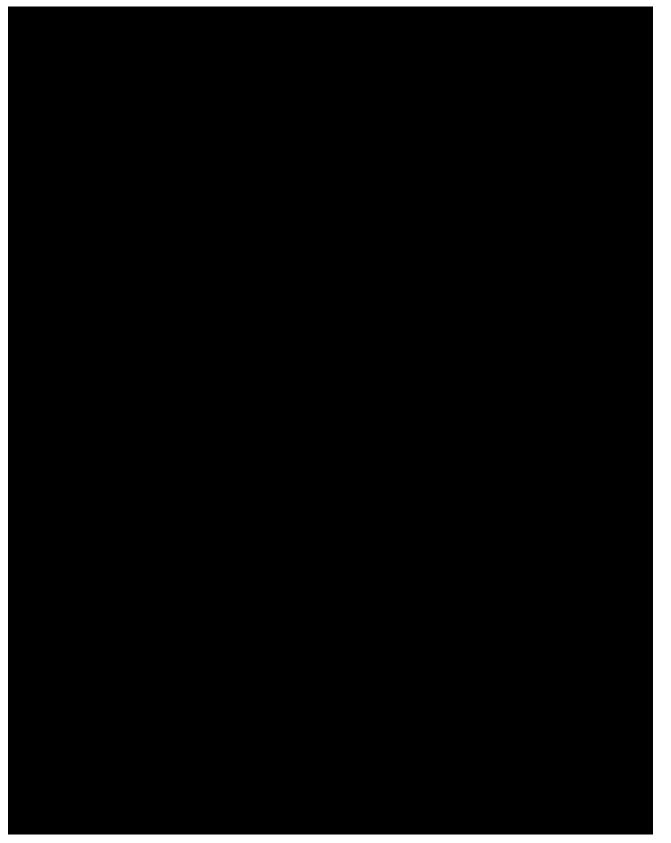


#### 9.12.2.41 Condensate Pipeline Vidal Street Meter Station BV Location Plan





#### 9.12.2.42 8" NGL KKK Pipeline BV Location Plan



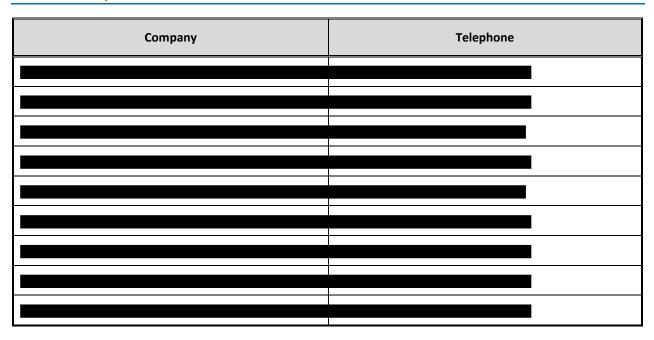


#### 9.12.2.43 Utility Pipeline BV Location Plan



# 9.13 Local Public Information

# **Industrial Operators**



Surface development information has not been included.



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