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Revisions

Date		Sections	Comments/Revisions
1.	Sep 2003	All	Issued
2.	Aug 2005	Element	Added Emergency Response Planning Audits (internal and external audits) Revised Responsibilities (updates to Provincial & Federal agencies, Superintendent to document ERP drills and exercises, then debrief, present results and recommendations)
		Tool Box	Revised SMART ERP Planning Checklist Revised EOC Checklist to "Field" Revised Key Implementer's Contact List Form
3.	May 2014	All	Update Penn West logo
4.	July 2017	All	Reviewed and revised entire document and name change to Obsidian Energy
5.	Sept 2019	All	Reviewed entire Document
		10.7	Changed reference from National Energy Board to Canadian Energy Regulator

This document is reviewed annually for continual improvement, completeness and accuracy. Revisions are only noted when changes are required.



10.0 Emergency Response and Preparedness

10.1 Introduction

Obsidian Energy develops and maintains Emergency Response Plans (ERPs) for all its operations. These response plans can be used for all types of emergencies and support the company's commitment to prepare for and respond to emergencies to minimize safety risks and environmental damage and maintain a positive public image.

The objective of Obsidian Energy's emergency response and preparedness program is to ensure engagement in planning and training of responders so that that all incidents involving Obsidian Energy operations and facilities are effectively managed, with first consideration is given to employee and public safety and health.

Refer to the **Obsidian Energy Corporate ERP** (Element 10 Tool Box).

10.2 Incident Management System

Obsidian Energy applies an Incident Command System (ICS) based incident management system to company emergencies. The **Obsidian Energy Command Structure** as outlined in the Obsidian Energy Corporate ERP can be found in the Element 10 Tool Box.

10.3 Emergency Response Planning

Emergency response planning needs to be done before an emergency occurs. This ensures that ERPs are both comprehensive and workable. Note the following considerations:

- ERPs are developed and implemented with the priority to preserve the safety and health of people, the environment, and property including company assets. An effective and promptly initiated ERP can minimize unexpected losses and diminish the consequences of both man-made and natural disasters.
- Hazards likely to occur based on the product and geography, along with the potential consequences to be prevented or addressed, are considered as part of ERP development. The Obsidian Energy Corporate ERP includes general hazards applicable to all Obsidian Energy operations. Site or area specific hazard identification and consequence assessment are considered and addressed in site or area specific ERPs. **Element 3A: Hazard Identification, Assessment and Control** of the Obsidian Energy SMART Health and Safety Management System addresses hazard and risk assessment.



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- The Obsidian Energy Corporate ERP assigns responsibilities applicable to different responder roles, including requirements for notifying and engaging outside stakeholders. These stakeholders may include the public, first responders, municipalities, Indigenous communities and provincial and federal agencies. Consultation with stakeholders is completed during the development or update of site or area specific ERPs. This consultation may be in person or over the phone, and is completed annually.
- Details of how stakeholders are notified of emergency are outlined in the Corporate ERP. Obsidian Energy has an emergency number (1-877-792-2990) which can be contacted by any stakeholder and which will engage responders in assessing a potential emergency situation, and activate the Obsidian Energy ERP if required.
- The completeness, accuracy and effectiveness of Obsidian Energy's Emergency Response and Preparedness Program is reviewed regularly (at least annually) through emergency response exercises. In addition, an external audit of this program is completed every 3 years as part of Obsidian Energy's Certificate of Recognition (COR) certifying audit.

10.4 Responsibilities

Responsibilities specific to certain responder roles are outlined in detail in the Obsidian Energy Corporate ERP (Element 10 Tool Box). All personnel shall meet the emergency response requirements and responsibilities listed below:

1. Managers

- Fully understand their specific roles in in the event of ERP activation.
- Provide resources and opportunities for the necessary training and response exercises and drills to adequately prepare personnel for emergency situations
- Provide resources to ensure ERPs are updated as required.

2. Supervisors

- Fully understand their specific roles in in the event of ERP activation.
- Review new facilities and changing conditions, operations, or other relevant circumstances to evaluate the need for an ERP.
- Ensure all site-specific ERPs are reviewed and updated annually and discussed with site personnel.
- Ensure emergency response exercises are conducted where required and participate as required.
- Document the completion of ERP drills and exercises, including a debriefing of the results and closure of opportunities for improvement.



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3. Workers

- Familiarize themselves with the ERP relevant to their specific work site(s), including new publications and/or updates as issued.
- Fully understand their individual role in the event of an emergency.
- Follow appropriate emergency procedures.
- In the event of emergencies, do what they can to protect themselves, others, and the facilities in a manner consistent with emergency procedures, safe work practices, and their specific expertise.
- Immediately report to their supervisor all fires, explosions, or other emergencies occurring in their work area.

4. Contractors

- In the event of emergencies, immediately report to their Obsidian Energy site contact all fires, explosions, or other emergencies occurring in the work area to which they have been assigned.
- When engaged to support Obsidian Energy in an emergency situation, do what they can to protect themselves, others, and the facilities in a manner consistent with emergency procedures, safe work practices, and their specific expertise.

10.5 Training

Training in the form of ERP exercises is completed regularly (at least annually) to confirm the completeness, accuracy and effectiveness of Obsidian Energy's Emergency Response and Preparedness Program. This training is completed at all levels of the company, with involvement of Corporate Command staff involved in major exercises. Scenarios are developed based on hazards present at the particular location involved in the training.

Personnel shall meet the following training requirements:

- Know how to use the ERP and respond to an emergency.
- Participate in relevant ERP training at regular intervals as prescribed in the Training Database.
- Complete training specific to the functions identified in the **Key Implementer Contact List**. Refer to Tool Box 10 for a blank copy.
- Include lessons learned from drills, exercises, and previous incidents into ERP training.
- Document all ERP training in the safety training database.



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- Include a basic overview of actions required in an emergency in all facility orientations so employees, visitors and contractors know how to respond appropriately to an emergency alarm (see Element 3A for more details).

Note: Trained employees are essential for this element to function correctly.

External agencies, responders and regulators will be included in ERP training, particularly major exercises, where possible. This involvement provides an opportunity for continuing education so these parties who may be called upon for support during an emergency are aware of hazards and protocols during an Obsidian Energy emergency. This involvement also provides an opportunity for relationship development between Obsidian Energy responders and external agencies, responders and regulators. Stakeholders are also provided with information about hazards and protocols as part of annual consultation.

10.6 Regulatory Requirements

Emergency Response Regulations Applicable to Obsidian Energy's Operations:

- Alberta Energy Regulator (AER: *Directive 71 – Emergency Preparedness and Response Requirements for the Petroleum Industry*)
- Environment Canada (Federal: *Canadian Environmental Protection Act Environmental Emergencies – CEPA E2 Regulation*)
- Canada Energy Regulator (Federal: *CER Emergency Management Program Requirements*)

10.7 Types of Emergency Response Plans (ERPs)

To aid in emergency response as well as meet regulatory requirements, Obsidian Energy develops and maintains Emergency Response Plans for all its operations. It is important that ERPs are accessible, communicated and understood by all affected workers. The types of Obsidian Energy ERPs include:

Corporate ERP

The **Obsidian Energy Corporate ERP** (Element 10 Tool Box) is the “umbrella” ERP that guides emergency response and applies to all Obsidian Energy's operations. This document includes Initial Response, Responder Checklists (responsibilities), Quick Guides, Spill Response, Media response including crisis communications, Corporate Emergency Contacts, Forms and other information. All other ERP documents are supplemental to the Corporate ERP.

The Obsidian Energy Corporate ERP is accessible to all Obsidian Energy employees on the company intranet and is also available on the company public internet site (personal



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or confidential information is redacted).

Sour Area Operations ERP

These ERPs are prepared to address operational hazards as per regulations by the AER, due to sour area operations which may impact surface developments. Emergency Planning Zones (EPZs), which address H₂S-related hazards, are calculated (using the ERCBH₂S version 1.20 calculation model) as part of the ERP development.

Site Specific ERPs

These ERPs are prepared for sour drilling, completions or well servicing operations as per regulations by the AER or for locations with large-volume chemical storage, as per regulations under Environment Canada's CEPA E2 regulation.

Site Emergency Response Information

Obsidian Energy personnel must post and review emergency response information for individual worksites. This information includes, but is not limited to, emergency contact, as well as evacuation and emergency transport information.

10.8 Mutual Aid Agreements

The objective of any Mutual Aid agreement with area stakeholders is to ensure an efficient and coordinated response to any emergency situation. The response should make use of all available expertise, facilities, and equipment.

Documented Mutual Aid Agreements should:

- include a communications procedure to alert Mutual Aid Partners about the event;
- document clear responsibilities and capabilities of each Mutual Aid Partner including municipal and provincial agencies; and
- be reviewed with municipal and provincial/state agencies to gain their understanding and acceptance and ensure Obsidian Energy compliance with all applicable regulations.

It is important to conduct simulations of potential emergency scenarios in order to assess the strengths and weaknesses of the Mutual Aid Agreement and any associated activities, and familiarize participants with pertinent practices, procedures, and activities.