

LIFE SAVING RULES

AN INDUSTRY ACCEPTED STANDARD

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ACCEPTED

This Industry Accepted Standard was developed by Energy Safety Canada and the Safety Standards Council member companies. Those companies at the time this standard was endorsed are as follows:

- » Birchcliff Energy Ltd.
- » Canadian Natural Resources Ltd.
- » Cenovus Energy Inc.
- » Clean Harbors Inc.
- » Encana Corp.
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Energy Safety Canada is the national safety association for the oil and gas industry. We develop and support common industry safety standards, deliver effective learning systems, share data analysis and safety expertise with workers and employers, and advocate for worker health and safety. Our goal is the same as industry's – zero injuries, zero incidents.

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ACKNOWLEDGMENT

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1.0 INTRODUCTION

The Industry Accepted Standard outlined herein is viewed as a means of protecting the health and safety of the individual by significantly reducing the risk of injury associated with “rule confusion” between different companies by focusing on critical hazards and work activities.

The intent of this document is to establish a set of Life Saving Rules that will be used across the industry and implemented at respective sites.

Companies that use these rules agree to implement the rules in accordance with the guiding principles and terms and conditions outlined in this Industry Accepted Standard (and as may be amended from time to time by Energy Safety Canada).

Each company shall develop and regularly audit its own specific standards to ensure that such standards meet the needs of their specific work place and comply with this Industry Accepted Standard and all its applicable requirements.

1.1 PURPOSE

To establish a common approach and set of Life Saving Rules which are recognized and enforced by companies.

These Life Saving Rules are intended to supplement and/or support existing company management systems, programs and policies.

These Life Saving Rules are based upon the International Association of Oil and Gas Producers (IOGP) Life Saving Rules to maximize industry alignment.

Any changes to this Industry Accepted Standard must be approved by Energy Safety Canada and the Safety Standards Council.

1.2 SCOPE

This Industry Accepted Standard applies to all employees, contractors, subcontractors and on-site vendors for companies within Canada. Companies will include the Safety Standards

Council member companies at the time this standard was endorsed and any other companies that subsequently use these rules.

This Industry Accepted Standard has been developed with support, information and guidance from the IOGP.

1.3 ACCOUNTABILITIES

In accordance with occupational health and safety legislation all workers are responsible for protecting the health and safety of themselves and other workers.

Each company implementing these rules shall ensure no changes to the symbols or definitions occur.

2.0 GUIDING PRINCIPLES

The life saving rules are based on the following Guiding Principles:

- » **Standardization:** companies agree to adopt and not alter the rule’s logos or descriptions
- » **Support:** companies will support workers and supervisors in the adoption, use and on-going management of the rules
- » **Accountability:** companies acknowledge that any breach of the rules is unacceptable and will investigate infractions and take appropriate action when rules are violated
- » **Continuous Improvement:** companies will monitor, report and evaluate their programs for improvement in safety performance
- » **Shared Learning:** companies will report, share lessons learned and best practices through Energy Safety Canada

3.0 REQUIREMENTS AND ENFORCEMENT

3.1 PREREQUISITES

Companies implementing these rules must have a Health and Safety Management System in place to ensure the effective implementation of the Life Saving Rules. In addition, but not limited to, companies should ensure the following:

- » Personnel on their worksites are authorized and required to intervene if they are in doubt about the safety of an activity.
- » Systems and processes are in place to collect data related to Life Saving Rule non-compliances and other safety related data (e.g. incident near misses) to monitor the effectiveness of the implementation of these Life Saving Rules.

3.2 ENFORCEMENT

All companies will have adequate systems and processes in place to ensure rules are enforced and to manage non-compliances.

A breach or non-compliance to any Life Saving Rule is unacceptable.

All users of these rules and their respective employees, agents, contractors, subcontractors and on-site vendors will have an investigation process that ensures that all infractions are investigated in a timely manner and root causes determined.

All companies will have a consequence model that ensures that any infraction is dealt with consistently, timely and fairly.

Consequences could include being removed from site and/or termination of employment.

4.0 LIFE SAVING RULES

These Life Saving Rules have been endorsed and implemented to improve safety performance and/or mitigating risks to workers where we have seen a history of significant injuries or fatalities in the industry. These rules will be recognized and commonly enforced across all company sites within Canada. The 10 Life Saving Rules outlined below represent the comprehensive list of rules.

All Life Saving Rules must be preserved in their entirety. Changes are not permitted to the symbols or definitions of any of the Life Saving Rules.

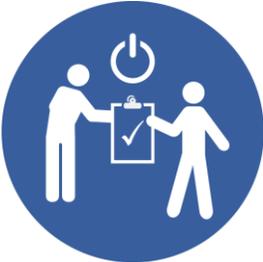
The following ten Life Saving Rules (Appendix I) will be enforced at all company sites:

1. Obtain authorization before entering a confined space
2. Protect yourself against a fall when working at height
3. Work with a valid permit when required
4. Verify isolation and zero energy before work begins
5. Keep yourself and others out of the line of fire
6. Obtain authorization before disabling or overriding safety controls
7. Follow safe driving rules
8. Control flammables and ignition sources
9. Plan lifting operations and control the area
10. Be in a state to perform work safely

APPENDIX I – LIFE SAVING RULES

Energy Safety Canada acknowledges the significant contributions of IOGP in developing Life Saving Rules and for allowing their use.

| | Icon and Title | Rule Description | Rule Details |
|----|--|--|---|
| 1. | <p>Confined Space</p>  | <p>Obtain authorization before entering a confined space</p> | <ul style="list-style-type: none"> » I confirm energy sources are isolated » I confirm the atmosphere has been tested and is monitored » I check and use my breathing apparatus when required » I confirm there is an attendant standing by » I confirm a rescue plan is in place » I obtain authorization to enter |
| 2. | <p>Working at Height</p>  | <p>Protect yourself against a fall when working at height</p> | <ul style="list-style-type: none"> » I inspect my fall protection equipment before use » I secure tools and work materials to prevent dropped objects » I tie off 100% to approved anchor points while outside a protected area |
| 3. | <p>Work Authorization</p>  | <p>Work with a valid permit when required</p> | <ul style="list-style-type: none"> » I have confirmed if a permit is required » I am authorized to perform the work » I understand the permit » I have confirmed that hazards are controlled and it is safe to start » I stop and reassess if conditions change |

| | Icon and Title | Rule Description | Rule Details |
|----|---|---|--|
| 4. | <p>Energy Isolation</p>  | <p>Verify isolation and zero energy before work begins</p> | <ul style="list-style-type: none"> » I have identified all energy sources » I confirm that hazardous energy sources have been isolated, locked, and tagged » I have checked there is zero energy and tested for residual or stored energy |
| 5. | <p>Line of Fire</p>  | <p>Keep yourself and others out of the line of fire</p> | <ul style="list-style-type: none"> » I position myself to avoid: <ul style="list-style-type: none"> • Moving objects • Vehicles • Pressure releases • Dropped objects » I establish and obey barriers and exclusion zones » I take action to secure loose objects and report potential dropped objects |
| 6. | <p>Bypassing Safety Controls</p>  | <p>Obtain authorization before overriding or disabling safety controls</p> | <ul style="list-style-type: none"> » I understand and use safety-critical equipment and procedures which apply to my task » I obtain authorization before: <ul style="list-style-type: none"> • Disabling or overriding safety equipment • Deviating from procedures • Crossing a barrier |

| | Icon and Title | Rule Description | Rule Details |
|----|---|--|--|
| 7. | <p style="text-align: center;">Driving</p>  | <p>Follow safe driving rules</p> | <ul style="list-style-type: none"> » I always wear a seatbelt » I do not exceed the speed limit, and reduce my speed for road conditions » I do not use phones or operate devices while driving » I am fit, rested and fully alert while driving » I follow journey management requirements |
| 8. | <p style="text-align: center;">Hot Work</p>  | <p>Control flammables and ignition sources</p> | <ul style="list-style-type: none"> » I identify and control ignition sources » Before starting any hot work: <ul style="list-style-type: none"> • I confirm flammable material has been removed or isolated • I obtain authorization » Before starting hot work in a hazardous area I confirm: <ul style="list-style-type: none"> • A gas test has been completed • Gas will be monitored continually |
| 9. | <p style="text-align: center;">Safe Mechanical Lifting</p>  | <p>Plan lifting operations and control the area</p> | <ul style="list-style-type: none"> » I confirm that the equipment and load have been inspected and are fit for purpose » I only operate equipment that I am qualified to use » I establish and obey barriers and exclusion zones » I never walk under a suspended load |

| | Icon and Title | Rule Description | Rule Details |
|-----|---|--|--|
| 10. | <p>Fit for Duty*</p>  | <p>Be in a state to perform work safely</p> | <ul style="list-style-type: none"> <li>» I will be physically and mentally in a state to perform my assigned duties <li>» I commit to not being under the influence of alcohol or drugs <li>» I will inform a supervisor immediately if I or a co-worker may be unfit for work |

* Fit for Duty is an Energy Safety Canada specific rule and not part of the IOGP rules

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