LIFE SAVING RULES

Toolbox Talk
Energy Isolation

SETTING THE STANDARD IN OIL AND GAS SAFETY
OUTLINE

• 10 Life Saving Rules
• Description of Energy Isolation Rule
• Additional Guidance
• Roles & Responsibilities
• Example Violations
• Related Life Saving Rules
• Summary
ENERGY SAFETY CANADA’S 10 LIFE SAVING RULES

- Confined Space
- Working at Height
- Work Authorization
- Energy Isolation
- Line of Fire
- Bypassing Safety Controls
- Driving
- Hot Work
- Safe Mechanical Lifting
- Fit for Duty
ENERGY ISOLATION LIFE SAVING RULE

• Verify isolation and zero energy before work begins
  • 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
ADDITIONAL GUIDANCE

• **Energy sources** may be pneumatic, hydraulic, mechanical, gravitational, chemical, electrical, nuclear, thermal or any other energy that could cause injury

• For energy isolation to be an **effective barrier**, the energy must be turned off, locked out and tagged

• Specified **life-protection equipment** — such as electrical arc-flash or respiratory protection, or chemical-resistant gloves and suits — safeguard you from certain types of hazardous energy

• **Testing for residual or stored energy** may involve measuring pipeline pressure, gas detection, electricity and radiation
AS A SUPERVISOR

- I confirm that isolation is in place and that no stored energy or other hazardous energy remains
- I ensure adequate systems, processes and equipment (e.g. locks, tags, etc.) have been used as per site requirements
AS A WORKER

• I have the required training and knowledge to safely perform work
• I confirm with my supervisor or the person in charge that isolations are in place and it is safe to start work
• I ensure life-protecting equipment is used as indicated
• I never remove a lock that is not mine without authorization
EXAMPLE VIOLATIONS

- Energy sources are not identified on the work permit or hazard assessment
- Hazardous energy is not turned off, locked and/or tagged
- Life-protecting equipment indicated on the work permit, hazard assessment or work procedures is not worn
- Someone else’s lock is removed without authorization
EXAMPLE VIOLATIONS - CONTINUED

- Testing for residual or stored energy is not conducted as per the work permit, hazard assessment or work procedures
- Piping is opened without verifying the line is depressurized
- Gas detection alarms are ignored
- Electrical measurements are not conducted to verify the circuit is no longer live
RELATED LIFE SAVING RULES

- HOT WORK
- WORK AUTHORIZATION
- FIT FOR DUTY
- BYPASSING SAFETY CONTROLS
- CONFINED SPACE
- LINE OF FIRE
SUMMARY

- Know your role and responsibilities in relation to the Energy Isolation rule
- Notify your supervisor immediately if you are unsure about how to comply with this rule in your work environment
- If you see a potential violation of the Energy Isolation rule, intervene – it could be the last chance to prevent a fatality
- Consistent application of the Life Saving Rules equates to saved lives
- These rules are essential to achieving industry’s shared vision: zero injuries, zero incidents
QUESTIONS?