

# NMA/NRC Uranium Recovery Workshop

## May 3, 2012 Denver, CO

www.CORESafety.org 1



- •Why do we need CORESafety?
- •How does CORESafety work?
- •What is next for my company and **CORES**afety?



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  - Leadership
  - Safety and health management
  - Assurance



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  - Leadership
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  - Assurance
- **CORESafety** is specifically designed for U.S. mining.

 CORESafety is managed through continual improvement principles:





## Leadership

Leadership Development Responsibility & Accountability Culture Enhancement Collaboration & Communication Reinforcement & Recognition Resources & Planning Management System Coordination

## Systems Management

Fatality Prevention/Risk Management

**Change Management** 

**Engineering & Construction** 

Safe Work Procedures & Permits

**Training & Competence** 

**Occupational Health** 

**Behavior Optimization** 

Incident Reporting & Investigation

Contract Management & Procurement

**Emergency Management** 

### Assurance

S&H Management Assurance Audit & Review Documentation & Information Management



# Why do we need CORESafety?

- To drive long-term improvement in safety and health performance
  - Long- term (5-year) safety performance (fatalities) has plateaued
- U.S. mining taking control of its own destiny
- The best path to 0:50:5 according to safety experts
- A proven record of performance improvement in mining and other industries
- To supplement current safety and health management systems
- To improve regulatory compliance



## Benchmarked others to achieve goal of zero fatalities and 50 percent reduction in the rate of injuries within five years:

- U.S. and international mining companies
- U.S. nuclear power industry (INPO)
- Commercial & civil aviation
- Offshore oil development industry
- Large and small-scale chemical industry companies



- 1. Set goal/objective
- 2. Define tasks
- 3. Assign responsibilities

Plan

- 4. Ensure know how
- **5.** Provide resources

7. Check progress8. Provide feedback

heck

6. Conduct work

9. Performance evaluation10. Apply consequences









# **Responsible Care vs. Industry 1990 - 2008**









*"It's amazing what we accomplished once our members began to see Responsible Care as an opportunity and not a threat. It was like bringing in a new more effective playbook at half time."* Debra Phillips, Managing Director, Responsible Care, American Chemistry Council (ACC)

"We need a holistic approach to safety that allows us to spot trends and make necessary changes to help **avoid** incidents and accidents. . .safety management systems are a critical piece of a successful safety management culture." Randy Babbitt, FAA Administrator





# How does CORESafety work?



### CORESAFETY. Committed to Excellence in Mining Safety CORE SAFETY OVERVIEW CORE SAFETY FRAMEWORK S GET CORE SAFETY C HOME What is **CORESafety?** A commitment to the safety and health of mining employees. .... Achieving a Core Value The CORESafety initiative is an industrywide partnership built on a foundation of leadership, culture and health and safety systems. Get Started with CORESafety

Safety Task Force leaders discuss CORESafety.

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Step 2 Define the System	<ul> <li>Conduct a gap assessment to help define what your company has and what it is missing</li> <li>Develop an action plan to help close identified gaps</li> </ul>	CORESidety Gap Assessment Tool
Step 3 Develop the Basic Structure	Ensure strong senior management support and ownership     Select a leader to have overall responsibility for system development and implementation     Integrate Mine Safety and Health Administration (MSHA) and Occupational Health and Safety Administration (OSHA) compliance requirements into the system	About Safety and Health Management Systems     CORESelety SHMS Implementator Guidance Document     Understanding OHSAS 18001-1999 and ANSLZ-19
Step 4 Aasign Responsibilities and Fix Accountability	<ul> <li>Assign an individual to each of the system's 20 modules (this can be done over time)</li> <li>Integrate the system within the overall organization by providing diversity when assigning responsibilities, e.g., department manager, safety and health professional, member of technical staff or an houry employee</li> </ul>	About Salintz and Health Management Systems     CORESalery SHMS Implementation Guidance Document

When you have made sufficient progress on these getting started steps, you are ready to start the implementation phase of the CORESafety bealth and safety management system. Remember, you will learn more as you do more—it's all part of the continuous improvement cycle.

Pass this information on:

#### Share with a Colleague

Download CORESafety Brochure

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## **Getting Started:**

### Gain "Systems" Knowledge

- Understand the difference between a system and a program
- Familiarize management with the CORESafety framework's 20 modules

### Step 2 De

Define the System

- Conduct a gap assessment
- Develop an action plan to close the gaps

### Step 3

Step 1

### Develop the Basic Structure

- Ensure strong senior management support and ownership
- Select a leader
- Integrate MSHA and OSHA compliance into system

### Step 4 Assign Responsibilities

• Fix Accountability





- 1. Leadership Development
- 2. Responsibility & Accountability
- 3. Management Systems Coordination
- 4. Fatality Prevention/Risk Management
- 5. Training & Competence
- 6. Emergency Management
- 7. Culture Enhancement
- 8. Collaboration & Communication
- 9. Reinforcement & Planning
- 10. Resources & Planning
- 11. Change Management
- 12. Work Procedures & Permits
- 13. Occupational Health
- 14. Incident Reporting & Investigation
- 15. Behavior Optimization
- 16. Safety & Health Management Assurance
- 17. Assurance
- **18. Documentation & Information Management**
- 19. Engineering & Construction
- 20. Contractor Management & Purchasing



# **CORESafety is not:**

- A requirement to throw out your current approach and start over.
- Someone telling you how to run your business
- An expectation that one size/approach fits all
- A program (MSHA = program)
- An expectation without resources
- A tool that solves all safety problems overnight
- A tool that doesn't need to be actively managed once developed
- A tool that doesn't need employee involvement



# **Resources:**

- Handbook that can be customized
- Web-based materials
  - White papers
  - Tools Gap assessment, Culture survey
  - Guidance documents
  - Best practices
- Member-based support
- Consultants









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### **Fatality Prevention Guideline**

#### I. Purpose and Scope

The purpose of this document is to define specific activities that drive operations to identify tasks and exposures with fatal risk potential, and to ensure that the risk control measures applied to those tasks/exposures are proactive, reliable, and sustained. The document also defines training requirements for leadership and the workforce.

### 2. Definitions

<u>Pure Risk</u>: The risk score calculated by multiplying the probability of an incident by potential consequence, without considering the controls that are in place.

Residual Risk: The risk score considering the controls that are in place.

<u>Critical Controls</u>: Risk control measures that an operation relies upon to reduce an unacceptably high Pure Risk to a tolerable level. For example, an effective guard might be used as a critical control to reduce the Pure Risk of working near the tail pulley of a conveyor belt to a tolerable Residual Risk.

Significant Risk: For the purpose of this guideline are:

- Operation Significant Risks An operation's elevated "pure risks" that if not effectively controlled have the potential to lead to catastrophic outcomes. (If critical controls fail or are not effectively maintained, personnel are exposed to high potential for a fatal injury.)
- "Global Significant Risks" A listing of common tasks/exposures across a corporation
  or other grouping of operations in which there is consensus of high pure risks. For example,
  direct dumping waste or ore over high dumps is widely recognized as having a high risk of
  fatal injury if critical controls (adequate berms, inspection for tension cracks, water
  management, etc.) are not maintained.

#### 3. Requirements

#### 3.1 Planning

Fatality Prevention elements include:

- Active support from senior management
- A process for Hazard Identification, Risk Assessment, and Determination of Controls (HIRADC)
- Field level auditing for verification of Critical Controls associated with Significant Risks
- Communications
- Management Review

#### 3.2 Active Support from Senior Management

Senior management at a corporation's highest levels must actively support the fatality prevention initiative. This includes setting specific expectations for senior leadership, and following up regularly to ensure that those expectations are being met.

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## What is next for my company and CORESafety?

2012	2013	2014	2015
Learn about CORESafety	Develop or revise SHMS	Conduct self- assessment	Verify SHMS is in place and working
Overview <ul><li>Executives</li><li>S&amp;H leaders</li></ul>	Phase in Modules 7-14	Phase in Modules 15-18	Phase in modules 19 & 20
Conduct gap analysis	Integrate with MSHA compliance	Get ready for third- party assessment	Conduct third-party verification of system
Commit to participation	Internally report annual metrics		
Phase in Modules 1-6			