

# ***Integrated Safety Management System Overview***

Presented to the Citizens Advisory Board  
March 13, 2013

**Mark C. Brown**  
Assistant Manager  
Department of Energy-Idaho



**EM** *Environmental Management*

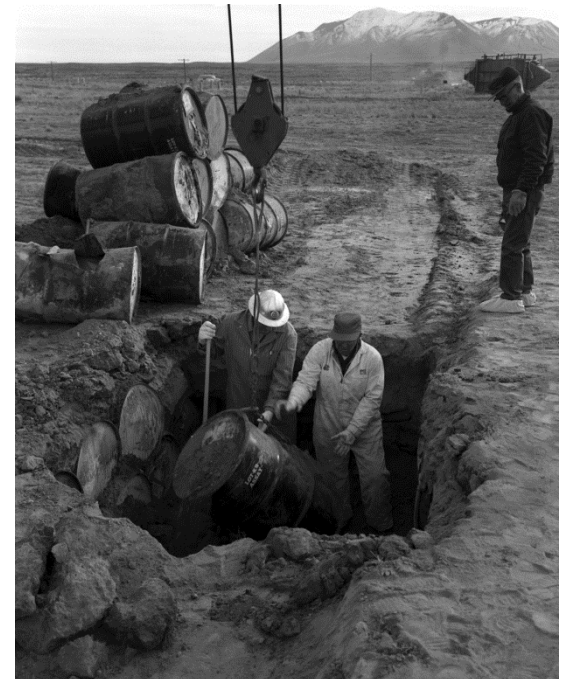
safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)

# Integrated Safety Management Systems

## Purpose

- Provide an overview of ISMS
- How does worker safety fit into ISMS
- How do the federal staff conduct oversight of worker safety
- How do the contractors implement safety



**EM** *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)

## DOE ISMS Policy:

The Department will implement integrated safety management systems to systematically integrate safety into management and work practices at all levels in the planning and execution of work. All organizations will develop, maintain, and implement ISM systems for their operations and work practices, based upon the ISM Guiding Principles and Core Functions . . .

- Requirements:
  - DOE Policy
  - DOE Order (federal staff expectations and requirements)
  - DOE Contracts and Regulation (contractor requirements)



**EM** *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)

## DOE ISMS *Core Functions*:

- Define the scope of work
- Analyze the hazards
- Develop and implement hazard controls
- Perform work within controls
- Provide feedback and continuous improvement



**EM** *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)

## DOE ISMS *Guiding Principles:*

- Line management responsibility for safety
- Clear roles and responsibilities
- Competence commensurate with responsibilities
- Balanced Priorities
- Identification of safety standards and requirements
- Hazard controls tailored to work being performed
- Operations authorization

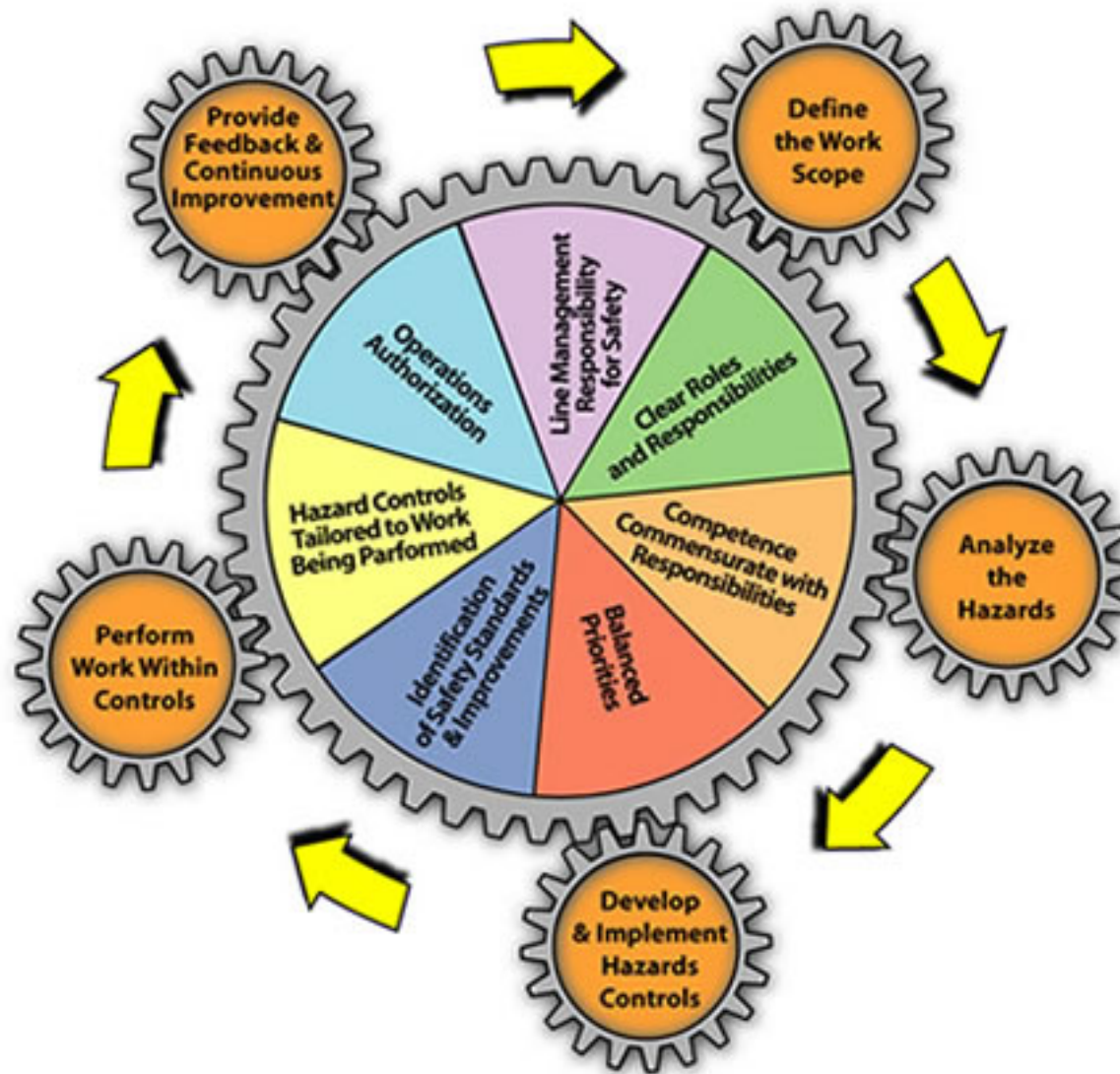


**EM** *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)





## How does worker safety fit into ISMS?

### – Worker Safety fits into each Core Function

- Work Scope: Clearly defined scope is needed to avoid scope creep and to bound the review of hazards and controls
- Analyze Hazards: Involves workers (and experts) in identifying hazards present or possible during the work
- Develop Controls: Workers (and experts) develop hazard controls and help in the development of work procedures to conduct the work and implement the hazard controls
- Perform Work: Work is safely performed according to procedures
- Feedback: Workers provide in-process and post-job feedback to improve the work processes and controls



## How does DOE provide oversight of Worker Safety?

- DOE provides oversight of processes and implementation of each Core Function
  - Work Scope: Clearly defined work scope in the work package
  - Analyze Hazards: Workers and the right experts are involved in the work planning, including hazard identification
  - Develop Controls: Controls are appropriate and adequate to protect the workers
  - Perform Work: Work is safely performed according to procedures
  - Feedback: Workers provide in-process and post-job feedback to improve the work processes and controls
- DOE provides oversight of processes and implementation of each Guiding Principle
- DOE ensures each contractor has clearly defined, effective processes to implement Core Functions and Guiding Principles





## What do contractors do to implement ISMS and Worker Safety?

- Each DOE prime contractor is required by law and contract to have a DOE-approved ISMS description document
  - Each new contractor must receive a DOE ISM verification review
  - Each contractor is required to annually review their ISMS and “declare” its effectiveness based on performance in the past year; documentation is provided to DOE
- Each DOE contractor is required by law to have a DOE-approved Worker Health and Safety Plan
  - Changes to the plan must be submitted to DOE for approval (at least annually)
- Each DOE field office is also required to have a DOE-headquarters approved ISMS description document for implementing ISMS at the DOE field office level



Integrated Waste Treatment Unit  
Planning and Mock-up Video for Work on the  
Denitration Mineralization Reformer  
(demonstrating implemented aspects of ISMS)



**EM** *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)

Questions?



***EM Environmental Management***

safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)

## Backup Slides



***EM Environmental Management***

safety ❖ performance ❖ cleanup ❖ closure

[www.em.doe.gov](http://www.em.doe.gov)

# What is the status of ITG and CWI implementation of ISMS and Worker Safety and Health?

## **CWI:**

- Approved, implemented, effective ISMS (approved and verified in 2006)
- Approved Worker Health and Safety Plan

## **ITG:**

- Phase I verification review (documentation/procedures) completed February 2012
- Phase II verification (implementation) planned for June 2013
- Approved Worker Safety and Health Plan (approved in 2011)

