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Integrated Safety Management  
and  
Environment, Safety and Health  
Upgrade & Enhancement Efforts

Worker Safety Committee Briefing

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# Presentation Outline

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- Background
- DOE Assessment
- Worker Safety Committee Role
- Recent Activities
- Initial Observations
- Current / Future Activities
- Program Timeline
- Feedback / Questions



# Background

- Contractual Requirements
  - 63 specific ES&H requirements incorporated into operating contract (compliance and performance measurement and reporting)
  - DEAR Clauses
    - 970.5204-2 Laws, Regulations and DOE Directives
    - 970.5223-1 Integration of Environmental Safety and Health Into Work Planning and Execution
- DOE Policy 450.4 (1996) Safety Management System Policy
  - Describes the components of a Safety Management System (SMS) that will be implemented from DOE HQ down to every day work elements.
- DOE Policy 450.5 (1997) Line Environment, Safety and Health
  - Describes the components of a self-assessment program, linked to the SMS, focusing on continuous feedback and improvement.
- DOE Policy 226.1 (2005) Department of Energy Oversight Policy
  - Describes the components of an oversight system that ensures compliance, identifies and corrects deficiencies, and tracks corrective actions associated with Integrated Safety Management Systems.
- Other key ES&H requirements: 10CFR 851 (Worker Safety and Health), 10 CFR 830 (Nuclear Safety Management), 10 CFR 835 (Radiation Protection for Occupational Workers), 29 CFR 1910 (Occupational Safety and Health Standards), etc.

*An Integrated Safety Management System (ISMS), integrates environment, safety and health into management and work practices at all levels.*



# Background (cont)

- JLab is preparing for a DOE Office of Independent Oversight (HS-64) assessment of ES&H programs in June 2008. This is anticipated to include a detailed review and validation of JLab ISMS program.
- JLab ES&H program contains many robust elements and a sound safety culture but upgrades and enhancements will be required to be implemented prior to the DOE assessment.
- Preparation will identify and address any remaining program gaps.
- Preparation will organize and prepare ES&H related materials to tell our story to HS-64.



# Assessment Focus

DOE P 450.4 describes 7 “Guiding Principles” of the SMS:

1. *Line Management Responsibility for Safety*
2. *Clear Roles and Responsibilities*
3. *Competence Commensurate with Responsibilities*
4. *Balanced Priorities*
5. *Identification of Safety Standards and Requirements*
6. *Hazard Controls Tailored to Work Being Performed*
7. *Operations Authorization*



# Assessment Focus (cont)

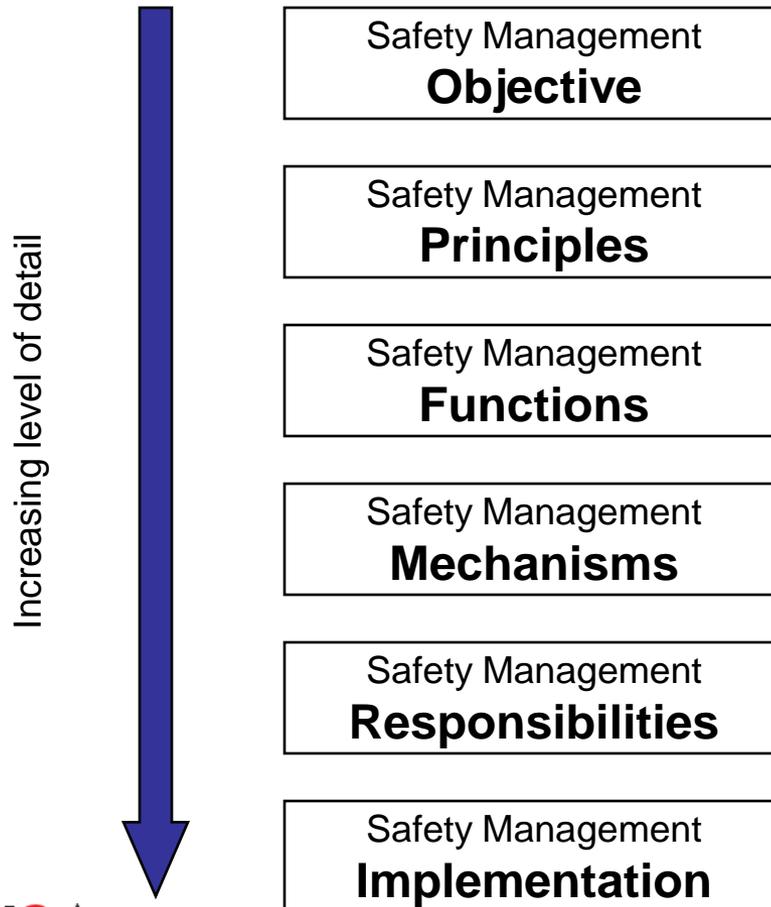
DOE P 450.4 describes 5 "Core Functions" of the SMS:

1. *Define the SOW*
2. *Analyze the Hazards*
3. *Develop and Implement Hazard Controls*
4. *Perform Work within Controls*
5. *Feedback and Continuous Improvement*



# Assessment Focus (cont)

## Safety Management System (Hierarchy of Components)



# Assessment Focus (cont)

- Assessment Team will:
  - Conduct interviews
  - Review documentation including the operating contract, policies, program descriptions, and procedures
  - Evaluate the state of implementation of the ES&H infrastructure
  - Observe work evolutions and operations

# WSC Role

## Champion our Preparation efforts and Help Us Overcome Implementation Challenges Through:

- Support and Communicate our efforts and progress throughout the lab
- Provide training to your organization on ISM/ES&H elements
- Validate improvement efforts
  - Review/comment on enhancement products
  - Generate ideas for improving knowledge base among workers
  - Act as a sounding board for JLab employees
- Provide feedback on perceptions (“Adds paper, not safety”)
- Determine the right balance between rigor and implementability



# Recent Activities

## Beginning 1 October, we have:

- Interviewed approximately 40 JLab staff from various organizations and at various levels to better understand JLab ES&H programs.
- Reviewed the policies, procedures, manuals and electronic resources we use to plan and execute safe work.
- Observed various work efforts.
- Prepared a program plan (draft) with various findings and recommendations.



# Initial Observations

- Noteworthy Items:
  - Excellent safety record
  - Annual Work Planning activities prioritize safety
  - Demonstrated ownership of safety responsibility (Hall Coordinators)
- Opportunities for Improvement:
  - Familiarity and understanding of the DOE nomenclature and ISMS Program Description
  - Uniformity of work planning/authorization/control
  - Self-assessment process
  - Training tools and record keeping



# Current/Future Activities

- Finalize ISMS Program Description and other supporting documentation
- Solicited input from the Line organizations on “How JLab gets work done”
- Anticipate audit questions, summarize JLAB processes and approaches in response to questions, review with staff
- Draft/revise procedures to address gaps
- Facilitate closeout of CATS items
- Create webpage content

# Project Timeline

Major milestones include:

- 30 November – Finalize ISMS Program Description
- 15 December – Distribute draft CRAD evaluation
- 28 December – Roll-out final ISMS webpage content
- 31 March – Complete any procedure upgrades
- 30 May – “Ghost” HS-64 team and hot buttons
- 30 May – Complete all training and mock interviews



# Summary

- JLab ES&H program elements are in place and implementation is improving
- Challenges exist, and are not unique to JLab
- Overcoming these challenges will ensure that good science remains the priority
- We need the help of the WSC
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# Feedback/Questions?

