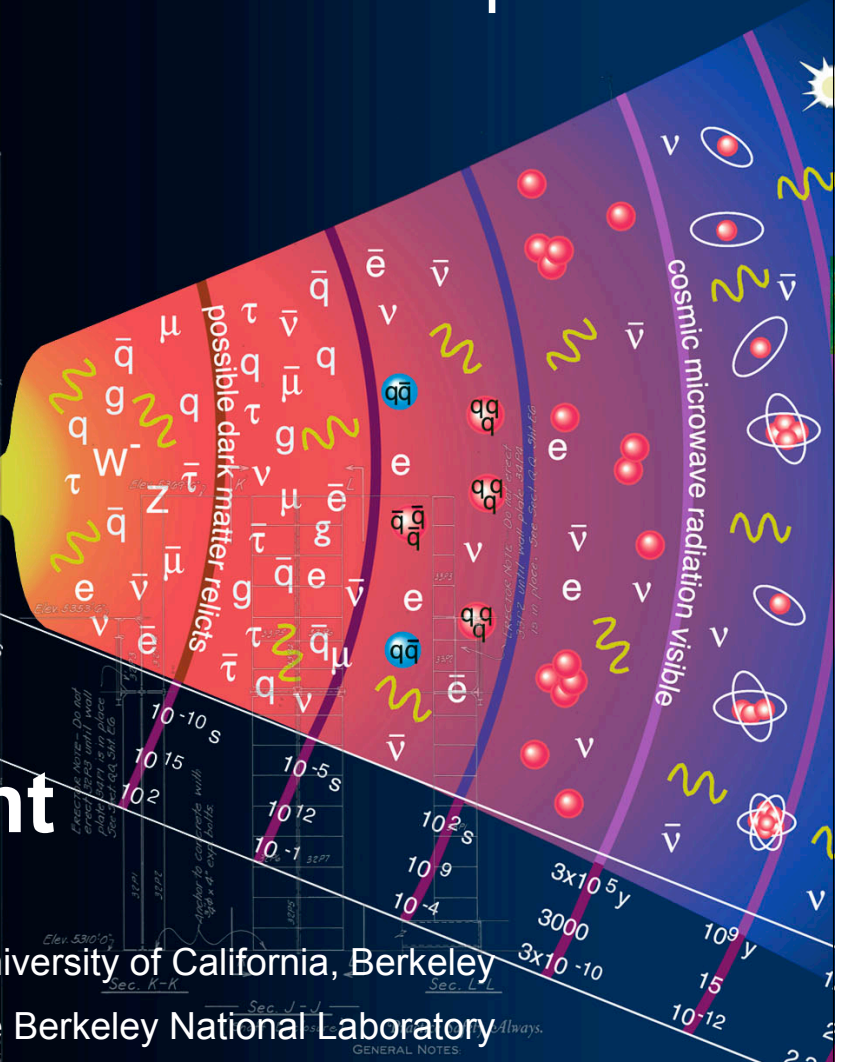


# Homestake DUSEL ISE Workshop

## Project Systems and Support Office Kurt Deshayes

## ISE Project Management

**BIG BANG**



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T	$10^{32}$	$10^{28}$
E	$10^{19}$	$10^{15}$

University of California, Berkeley

Lawrence Berkeley National Laboratory

South Dakota School of Mines and Technology

Lead, South Dakota, September 22 - September 25, 2009

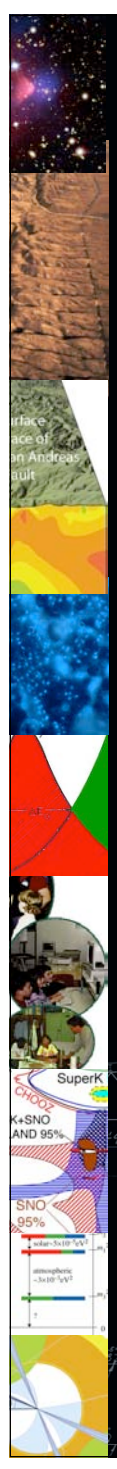


Figure Courtesy  
PDG and LBNL

# ISE Project Controls Support

- Provide Experiments with templates and samples
- Assist with the Work Breakdown Structure development
- Assist with the schedule development and maintenance
- Assist with the milestone development
- Assist with the cost estimating and range development
- Assist with the project execution plan development
- Provide any additional project controls support
- Provide Project Controls Integration across all satellite offices

# Experiment Deliverables – Phase I

LONGSECTION OF THE HOMESTAKE MINE

Sample Templates will be developed and implemented in two Phases:

***Phase I – CD-1 - PDR Level -Deliverables include:***

- Preliminary Project Execution Plan
  - Science and Project Objectives
  - Experiment collaboration team roles and responsibilities,
  - Infrastructure requirements
  - Work breakdown structure and dictionary
  - Initial cost estimate and range
  - Pre-construction milestones, initial version of construction milestones
  - Preliminary Project Execution Plan
  - Preliminary hazard assessment, analysis and mitigation plan
  - Preliminary Risk Assessment

# Experiment Deliverables - Phase II

LONGSECTION OF THE HOMESTAKE MINE

- ***Phase II – CD-2 Beyond the PDR timeframe deliverables include:***
- Update Project Execution Plan
  - Science and Project Objective
  - Experiment collaboration team roles and responsibilities,
  - Preliminary Infrastructure and technical functional requirements
  - Basis of design, applicable codes
  - Design reviews: definition and schedule
  - Work breakdown structure and dictionary
  - A full, bottom-up cost estimate and risk-based contingency
  - Detail schedule: pre-construction and construction, including milestones
  - Experiment management plan

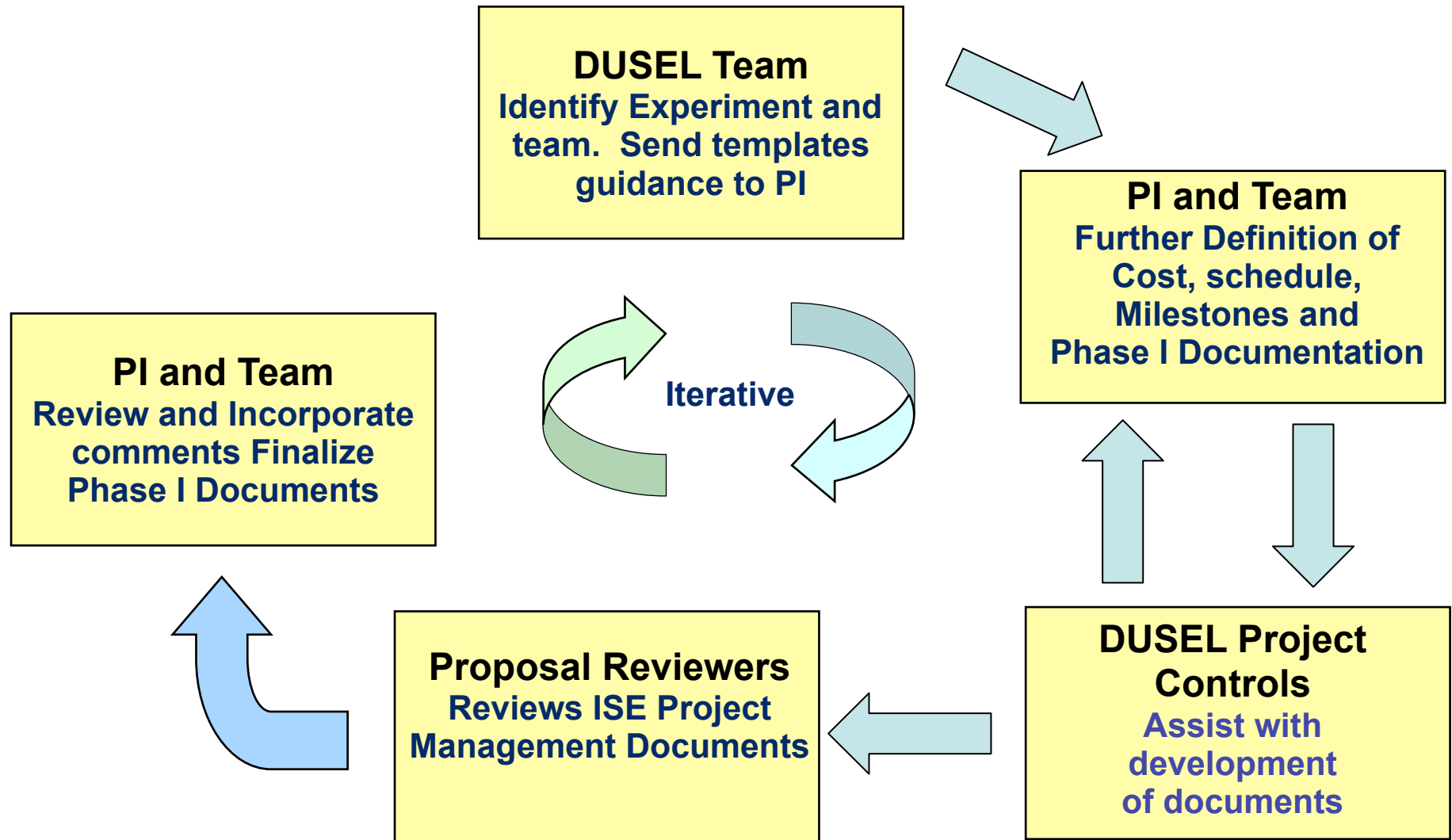
# Experiment Deliverables – Phase II Continued

LONGSECTION OF THE HOMESTAKE MINE

- ***Phase II – CD-2 Beyond the PDR timeframe deliverables include:***
- Update Project Execution Plan
  - Integrated safety management plan
  - Preliminary hazard assessment, analysis and mitigation plan
  - Risk analysis and mitigation plan
  - Experiment assembly and underground installation plan
  - Requirements management plan
  - Operational readiness criteria
  - Operations plan
  - Experiment preliminary design
  - Interface definition document with location layout

# ISE Document Review Process

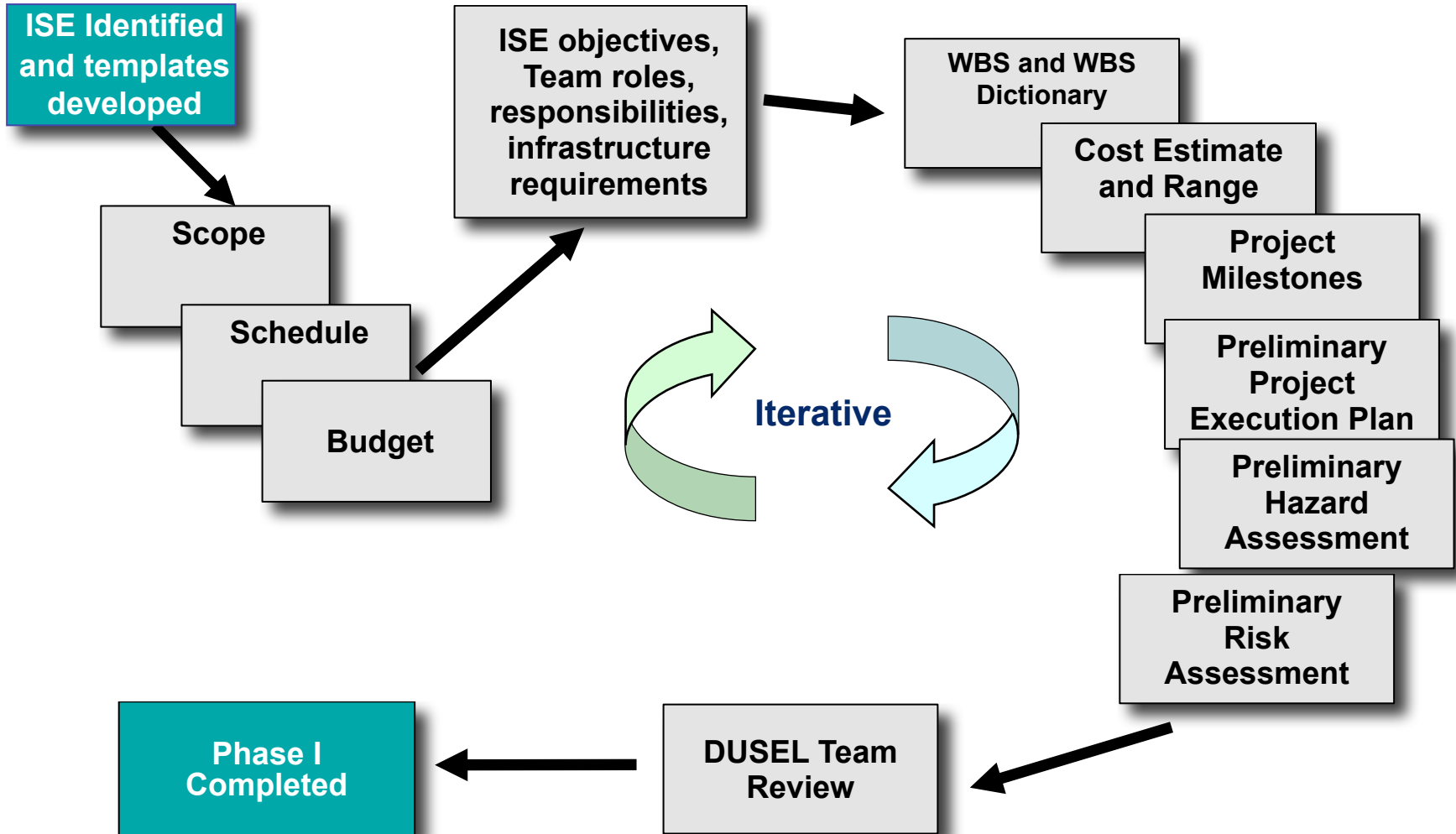
LONGSECTION OF THE HOMESTAKE MINE



# ISE Document Development Process

LONGSECTION OF THE HOMESTAKE MINE




## Phase I





# ISE Phase 1 Milestones and Deliverables

DUSEL Integrated Project Schedule_Current Draft_PDR			ISE Milestones KD																01-Oct-09 15:44
Activity ID	Start	Finish	08	2009				2010				2011				2012			
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
1101.01020	09-Oct-08 A			◆ S4 Solicitation															
1101.01040		09-Jan-09 A		◆ S4 Proposals received															
113.01105	01-Jul-09 A					◆ Start Integrated Suite of Experiments Management													
1101.01060	05-Aug-09 A					◆ S4 Awards Announced													
113.01125		30-Sep-09				◆ Existing ISE tools and templates identified													
1101.01080	01-Oct-09*					◆ DUSEL ISE Workshop													
113.01255		09-Oct-09				◆ DUSEL Team reviews and approves Experiment Project Execution Plan Template													
113.01235		09-Oct-09				◆ ISE Experiment Data templates developed													
112.01115		06-Nov-09				◆ Submit draft ISE Scope and Facility Integration Plan to ISE Experimental Team Leads for review and recommendat													
112.02235		01-Dec-09				◆ DUSEL Experiment Requirements Documents Delivered to ISE													
112.01125		03-Dec-09				◆ ISE Scope and Facility Integration Plan reviewed and approved													
1102.02285		29-Jan-10				◆ Phase I - Recieve Draft ISE Experiment Design Package (EDP) from Experiment													
112.02405		31-Mar-10				◆ Submit Phase I DUSEL Experiment Interface Definition (DEI) Documents to CCB for review and app													
123.010110		01-Apr-10				◆ EH&S Documents from ISE delivered													
112.02415		30-Apr-10				◆ Review Final Draft of Phase I EDP and DEI Documents Finalized and Approved													
123.020130		25-Jun-10				◆ Deliver ES&H ISE Checklist to Experiments Based on Analysis													
1111.12100		05-Aug-10				◆ Deliver Final ISE Experiment Design Package (EDP)													
112.02330		05-Aug-10				◆ Experiment Requirements Definition Documents Received from ISE													
113.01435		19-Aug-10				◆ Phase I DUSEL ISE Experiment Design Packages completed													
111.01040	30-Sep-10					◆ Preliminary Design Report (PDR) submitted to NSF (Early Finish)													

 Actual Work  
 Critical Remaining Work  
 Milestone

**Homestake DUSEL Project**  
**ISE Milestone Schedule**

1 of 1  
 01-Oct-09

