

ESH Coordinators Briefing

Occupational Health and Safety Audit Specification 18001

Brookhaven National Laboratory

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What is 18001?

- 18001 is an international management system specification for OS&H.
- Intended to help organizations control OS&H risks
- Developed to satisfy need for a recognized standard against which to be assessed and certified
- Currently a British Standard
- Likely to become an ISO standard (ANSI Z11)
- Very much like 14001 Environmental Management System

Why Pursue 18001?

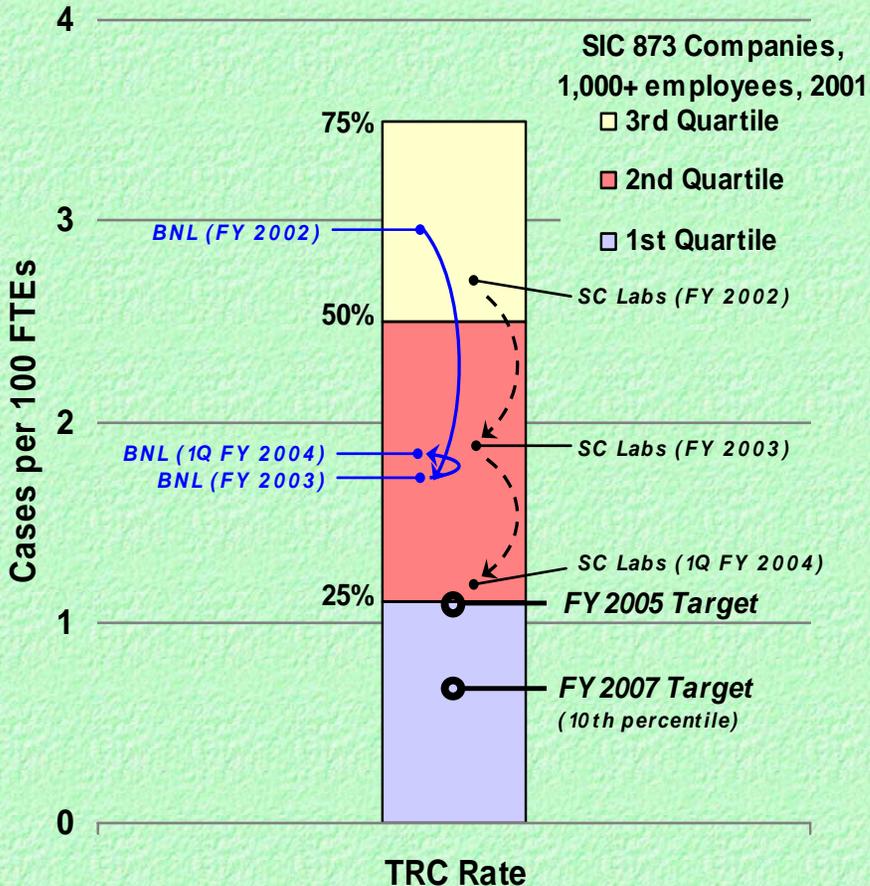
- There is a need for improvement in OS&H performance:
 - Laser incident
 - Multiple material handling incidents
 - Up tick in occupational injuries
 - OSHA Assessment (>5000 findings)
 - Up tick in occurrence reports (including near misses)
 - External assessors (Dupont & Liberty Mutual) have identified areas for improvement
 - Historical O/I status of lab at lower end of SC labs

Why Pursue 18001?

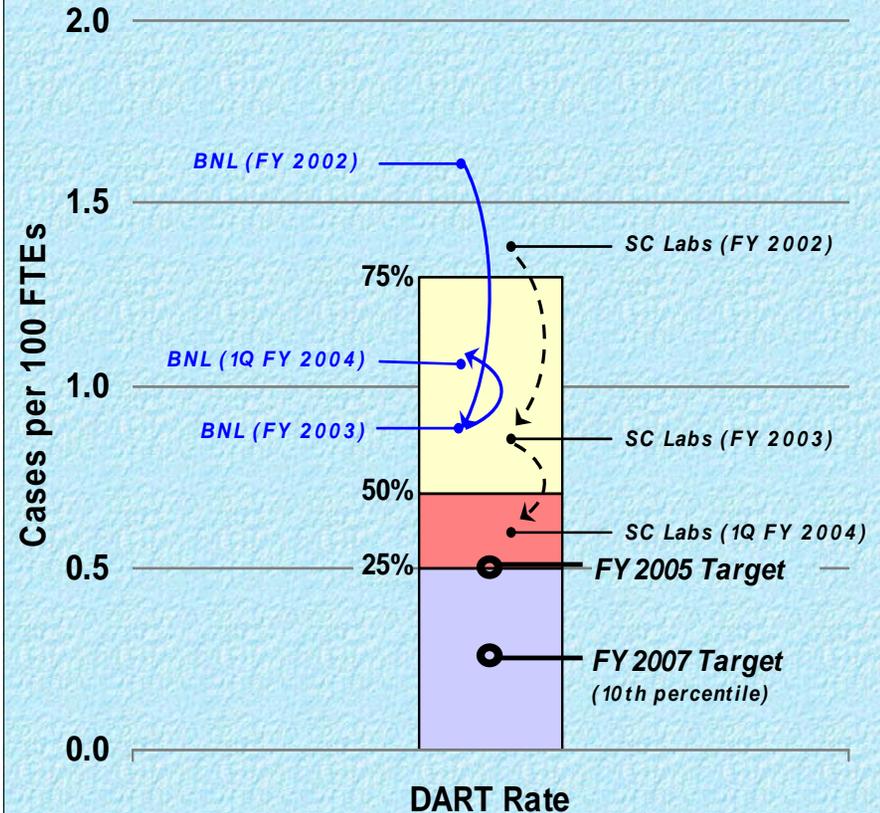
- Expectations are increasing
 - Office of Science goals are challenging (Orbach stretch goals-10th percentile by 2007)
 - Performance measures are being ratcheted down (04 and beyond to meet the Orbach goal)
 - Laboratory Director has “challenged” us to set the example
- Excellence is no longer an option it is now required

Future Performance Expectations

**Total Recordable Case (TRC) Rate
With BNL**



**Days Away, Restricted, or Transferred (DART) Rate
With BNL**



Note: Formerly known as the Lost Workday Case (LWC) Rate.

Why are we moving towards “Excellence”

- The right thing to do, and;
 - Reduces employee, visitor and contractor injuries/illnesses,
 - Stakeholders (DOE, Staff, Public) values & demands excellence in safety,
 - Free up resources for the Laboratory Scientific Mission,
 - Consistent & compatible with lab’s ISO 14001 initiative,
 - Promotes the lab’s injury free vision.
 - **14001 = Environmental Excellence**
 - **18001 = Occupational Safety and Health Excellence**
 - **Brings ISM to next level,**

18001 Structure

- OH&S Management System Elements
 - OH&S Policy
 - Planning
 - Implementation and Operation
 - Checking and corrective action
 - Management Review
 - Each element has several focus areas (total 17 clauses)

OHSAS 18001 Requirements

- OHSAS 18001 fundamental requirements:
 - Eliminate or minimize OH&S risks to employees, contractors, visitors etc.
 - Implement, maintain and continually improve OH&S performance.
 - Demonstrate conformance with stated policy.
 - Provide vehicle for employee involvement and management commitment.
 - Obtain independent third party evaluation & certification.

What are the significant clauses?

➤ Risk Assessment Process

- Similar aspect as 14001 “process assessments”
- Risk Assessments (based on consequence and probability)
- Risk Assessment will focus on three levels
 - Facility – Area - Task
- Bulk of work for BNL will be at the task level
 - Currently work planning pushes 80% of tasks to “skill of craft” with minimal hazard analysis.
 - 18001 will drive much more detailed risk assessment.
 - Team approach
 - Tasks are hazard prioritized

What are the significant clauses?

- Worker Safety Committees
 - Required for 18001 success
 - Employee driven
 - Allows staff mechanism to identify issues, suggest solutions
 - Improves communication on OSH issues
 - Will require roll-up mechanism to assure management attention (lab-wide)

OHSAS 18001 Implementation

- Pilot rollout for four BNL organizations:
 - Collider Accelerator Department
 - Plant Engineering Division
 - Central Shops Division
 - Environmental, Safety, Health & Quality Directorate
- Targets organizations with highest employee exposures.
- Goal: to implement lab-wide.

OHSAS 18001 Implementation - Important Dates

- ✓ Kickoff of pilot organizations February 04
- ✓ 18001 auditor training March 04
- ✓ Self audit April 04 (BNL lead auditors)
- Registrar initial assessment June 04*
- Registration/certification September 04
- Laboratory Roll out TBD

*Date coincides with EMS audits.

OHSAS 18001 Self Audit Results (pilot)

- ✓ Policy – Complete (rollout 4/19)
- ✓ Institutional Documentation developed/modified:
 - 18001 specific PD and MSD
 - Procedures for risk assessment (drafted)
 - Modifications to other MDS's and SA's
 - Keep pilot separate from institutional for now
- ✓ Dept/Division Specific:
 - Modifications to existing SOP's/OPM's
 - Conduct Facility/Area/Task Risk Assessments

OHSAS 18001 Implementation - Pluses

- Similar elements as ISO 14001, utilize same infrastructure
- Builds upon and enhances ISM (especially at activity level).
- Third party certification is desirable.
- Will demonstrate to DOE and staff that BNL is serious about improvements.
- Requires a much finer level of hazard analysis.
- Successful pilot phase will set expectations for the remainder of lab.
- **Will drive improvement in OH&S**

OHSAS 18001 Challenges

- Pilot Phase
 - Documentation
 - Risk assessments
 - Aggressive schedule
 - Competing resources
- Laboratory Rollout Phase
 - Phased rollout vs. remainder of lab?
 - Smaller organizations - resources
 - ESH&Q will need to develop and maintain institutional program.
 - ESH&Q will need to provide support to lab
 - ESH&Q will be the SME's

18001 Pilot Steering Committee

- Pat Williams (PM)
- Steve Hoey
- Ed Lessard
- Jim Tarpinian
- George Goode
- Jane Koropsak
- Andy McNerney