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NSLS FY 2009 ESH&Q IMPROVEMENT PLAN

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This ESH&Q improvement plan is established to define the actions planned for FY 2009 directed towards improvement of the NSLS ESH&Q programs.

The following 14 items have been selected for FY 2009. Progress on each item is tracked in the NSLS Family ATS database.

Goals and Targets continued from FY08

- 1) Improve management of the NSLS wet chemistry laboratories to include sufficient oversight and more efficient use of those spaces.**
 - a. Assist the laboratory stewards in development of written 'safety envelopes' for each laboratory that define the equipment and materials stored and the tasks performed in each space; assess the risks presented; and define control requirements.
(NSLS Family ATS 4056.6.5)(FY09 PEMP Target 5.2.2.2)
Responsibility: Stiegler
 - b. Review personnel assignments for the laboratory steward role.
(NSLS Family ATS 4056.6.1)
Responsibility: Ackerman

- 2) Define NSLS PPE requirements.**
 - a. Establish PPE requirements. (NSLS Family ATS 4056.11.3)
Responsibility: Ackerman

- 3) Continue development of web-based JTA questionnaire as a training needs assessment tool**
 - a. Collate and analyze the data collected to determine appropriate JTA assignments. (NSLS Family ATS 4056.14.3)
Responsibility: Corwin
 - b. Implement defined JTA assignments.
(NSLS Family ATS 4056.14.4)
Responsibility: Corwin

FY09 OHSAS/EMS Goals and Targets

4) Improve energy conservation at the NSLS

Background: BNL management supports and encourages energy conservation measures. This goal is in support of that emphasis.

- a. Evaluate the conclusions and observations included in the, “E-star EMS Project Report” submitted by D. Bauer on October 7, 2008 and establish a plan to implement actions towards 5% energy reduction for the NSLS for power consumption not in use for accelerator systems.
Responsibility: Bauer
- b. Survey and report on compliance with electronics purchasing Energy Star[®] requirements. (FY09 PEMP 5.3.2.1)
Responsibility: Bauer

5) Establish one meaningful and cost-effective proposal for pollution prevention at the NSLS and seek to secure funding for implementation.

Background: The Laboratory pollution prevention program can provide funding for projects that can reduce waste generation. The departments are expected to evaluate their waste streams each year and generate a proposal for consideration by the P2 council for funding.

- a. Evaluate the department waste stream and determine what significant component can be reduced by 10% or more.
Responsibility: Klaus
- b. Submit a proposal to the Laboratory pollution prevention council and seek funding for implementation.
Responsibility: Klaus

6) Increase NSLS personnel awareness to accidents and injuries and traffic violations.

Background: The BNL accident and injury rates exceed established targets. Traffic violations also continue. The NSLS goal is to achieve zero injuries and traffic violations (OHSAS Site Goal).

- a. Complete quarterly presentations to NSLS management on BNL and NSLS accident statistics.
Responsibility: Ackerman

7) Improve management involvement in workplace safety.

Background: BNL management has established a safety observation program for Level 1, 2, and 3 managers. This program is known as the 'STOP' observation program. The NSLS STOP goal is for each Level 2 and 3 manager to complete 3 observations per fiscal year quarter. (FY09 PEMP Target 5.2.3.1)

- a. Distribute quarterly reports on STOP observation progress to NSLS management.
Responsibility: Ackerman

Other FY09 Department Goals and Targets

8) Enhance facility ESH management. Incorporate Human Performance principles into facility risk analysis.

Background: This goal is directed at improving ESH management of the beam lines and wet chemistry laboratories.

- a. Develop beamline, "Safety Envelopes" to characterize, analyze and identify controls for the tasks performed during experiments and in maintaining each line with attention to Human Performance principles.
Responsibility: Stiegler
- b. Establish a document control and review strategy within existing NSLS systems for the Safety Envelopes.
Responsibility: Stiegler
- c. Incorporate use of the Safety Envelopes into existing processes for beamline and experiment ESH management.
Responsibility: Stiegler
- d. Implement new BLOSA analysis for each beam line and develop new BLOSA forms for each line.
Responsibility: Corwin
- e. Establish a document control and review strategy within existing NSLS systems for the BLOSA forms.
Responsibility: Corwin
- f. Define and implement food allowance on the Experiment Floor and adjacent areas.
Responsibility: Chmiel

9) Assure implementation of new ESH program elements.

Background: Four new ESH program elements were started as part of the FY08 ESH&Q Improvement Plan. This goal is directed at assuring implementation of those new requirements.

- a. Assure implementation of the conclusions and observations included in NSLS report #000591, "Analysis of Oxygen Deficiency Hazards in Macromolecular Crystallography Hutches".
Responsibility: Stiegler
- b. Assure implementation of the, "Guideline for Liquid Helium Transfer" included in NSLS PRM 5.1.0.
Responsibility: Klaus
- c. Assure implementation of the, "PPE Guidelines for Cryogen Use" included in NSLS PRM 5.1.0.
Responsibility: Klaus
- d. Assure implementation of the wet chemistry laboratory safety envelopes and R2A2's for Laboratory and Deputy Laboratory stewards.
Responsibility: Aloï

10) Improve chemical management.

Background: BNL site-wide OHSAS, EMS, and PEMP goals are directed at improving chemical management. This goal is in support of that emphasis.

- a. Define experiment sample inventory requirements within the BNL CMS program. (FY09 PEMP Target 5.2.2.2)
Responsibility: Klaus
- b. Review flammable reagent storage and assure compliance with BNL requirements. (OHSAS Site Goal)
Responsibility: Chmiel

11) Coordinate ESH&Q internal and external audits.

Background: Many audits of ESH&Q programs are completed each year. This goal is directed at assuring that these efforts are well coordinated throughout the department and that reports are captured and findings are tracked to completion.

- a. Establish and manage a family ATS assessment for collection of all audit reports and to track findings to completion.
Responsibility: Buckley

12) Evaluate new BNL ESH program requirements.

Background: The BNL SBMS requirements are often revised. This goal is to assure that revisions are monitored and that NSLS programs are adjusted to meet the new requirements.

- a. Assure evaluation of ESH&Q Subject Area changes and adjust NSLS programs to meet new requirements. (OHSAS Site Goal)
Responsibility: Aloï
- b. Assure development and distribution pertinent information on ESH&Q Subject Area changes or assure personnel training assignment for new requirements as appropriate.
Responsibility: Aloï
- c. Complete a gap analysis for the new SBMS LOTO Subject Area and adjust NSLS programs to meet any new requirements found.
Responsibility: Buckley

13) Continue implementation of Human Performance principles to NSLS facility and experiment operations.

Background: BNL is working to incorporate Human Performance principles into all operations at the Laboratory. This goal is in support of that effort.

- a. Assure scheduling and completion of HP training for all NSLS and resident beam line staff.
Responsibility: Corwin
- b. Modify the current NSLS Safety Training Module and existing JTA's to include HPI principles.
Responsibility: Corwin
- c. Prepare guidance on utilization of key HPI concepts in the development and use of formal procedures.
Responsibility: Buckley
- d. Establish a directorate HPI implementation team.
Responsibility: Ackerman

14) Assure compliance with BNL emergency management drill requirements.

Background: Annual emergency drills are required.

- a. Coordinate and analyze required emergency preparedness drills. (FY09 PEMP Target 8.1.1.5)
Responsibility: Chmiel