FY12 Plan for **ES&H**
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Relevant Strategic Plans – Strategic Plan for CS ES&H

ES&H Goal – Through continual improvement of our ES&H performance, and compliance to legal and regulatory requirements, our goal is to reduce ES&H impacts associated with our mission and the mission of the laboratory.

ES&H Strategy –

- Implement practices to reduce risks and to prevent injury to our employees.
- Maintain plans to minimize and respond to emergencies.
- Examine and guide ES&H practices of our contactors.
- Manage and reduce consumption of natural resources and generation of waste through design, reuse and recycling.
- Measure performance by monitoring and improving compliance with ES&H Policies.
- Provide information regarding ES&H practices and policy through dialogue, training, and openness with employees.

ES&H
FY11Accomplishments

- **ESH/ESH Data Center Energy Efficiency –** Water cooled chillers were replaced in FCC2 computer room with air cooled units, saving 1000 to 17000 gallons of water per minute. In FCC CR 2, the return air temperature was increased from 69 to 73 degrees F, and the return air temperature was increased from 73 to 77 degrees F in GCC Computer Rooms A, B and C. Cold aisle containment at GCC has been improved.
- **ESH/ESH Human Performance Improvement (HPI) –** A few HPI training classes were held lab-wide to introduce the concept at various levels. A handful of people from the Computing Sector were trained in the two day course, and a lab-wide implementation panel was formed, consisting of two CS individuals. The CS SSO sits in on the panel as a consultant.
- **ESH/ESH Internal Program Reviews –** Audits have been performed on the following programs - Computer Room Training document; Subcommittee membership/representation; NEPA; the notification system of monthly site-wide emergency warning systems; Satellite waste accumulation area and ESHTRK findings.
- **ESH/ESH CD Tracks** – An ES&H related article has been written for each monthly issue.
- **ESH/ESH Give added focus to the Industrial Hygiene Program –** All of the computer rooms have had noise samples taken. The results of the rooms are going to be posted on the CS ES&H webpage.

Not Accomplished in FY11

We were unable to provide a talk or series of talks focusing on mental health topics, initially because of budgetary reasons. When the budgetary issues were no longer an obstacle, timing became one. Voluntary and involuntary separations were priority in everyone's minds, and it seemed to be an inappropriate time to invoke these talks.

Objectives for FY12

ESH/ESH Data Center Energy Efficiency
- Activity type: Project
- Description: Investigate options for improving data center energy efficiency, including cold aisle containment efficiency and possibly moving equipment out of WH5, saving on cooling and UPS power.
- Timescale: Oct.1, 2012

ESH/ESH Human Performance Improvement
- Activity type: Project
- Description: Provide the basic concepts of HPI to supervisors and managers as guidance is given from the HPI Implementation Panel.
- Timescale: Oct. 1, 2012

ESH/ESH Internal Program Reviews
- Activity type: Service
- Description: Perform internal reviews on four existing CD ES&H Programs and document/correct findings.
- Timescale: Complete by October 1, 2012
- Metrics: Reviews will be entered in frESHTRK, along with any findings.

ESH/ESH CD Tracks
- Activity type: Service
- Description: Provide an ES&H related article in each issue
- Timescale: Ongoing
- Milestones: One article/month

ESH/ESH Give added focus to the Industrial Hygiene Program
- Activity type: Service
- Description: Create a link for the CS ES&H Webpage and populate it with health related information and samples taken.
- Timescale: Complete by October 1, 2012
- Metrics: Link will exist and be populated

ESH/ESH Mental Health Focus
- Activity type: Project
- Description: Provide a talk or series of talks focusing on mental health topics, particularly getting along with others
- Timescale: October 1, 2012
- Milestones: Completion of talk(s)

Priorities: The two highest priorities are to increase the data center efficiency and to provide HPI Training for our supervisors and managers. Increasing the data center efficiency will reduce our power consumption, which will save money and decrease our greenhouse gas emissions. The laboratory is moving toward applying HPI concepts, so it will be important for anyone with supervisory responsibilities to understand this concept. HPI will be the next level to attain in our ES&H and QA programs.

Staffing Issues: 1 FTE – No changes needed.

Change control:

Changes or delays in these priorities may put the division at risk with ES&H issues and increase the risk of performing badly on an audit.

Risk Assessment:

A delay or failure to increase our energy efficiency in the data centers will increase our greenhouse gas emission inventory and will cost the laboratory money over time in fines and energy bills.

A delay or failure to train supervisors and managers in HPI may put us behind the progress of other divisions/sections/centers, and it will hinder our sector from improving our formal programs.

A delay or failure to revisit already existing ES&H programs put the programs at risk of being outdated or obsolete. This puts us at risk for an injury and an audit finding.

CD Tracks articles have brought "at-home" and "at-work" ES&H issues to the forefront. By including articles that focus on "at-home safety", shows employees that it is their well-being that is most important, whether at home or at work.

A delay or failure to create a link for health-related topics would hinder communication to employees of air/water/noise samples taken and the results. If the link is created and populated, employees would have easy access to such information.