Key Elements of Brookhaven's EMS

Policy
- BNL Environmental Stewardship Policy

Planning
- Identifying activities that can have environmental impact
- Identifying legal and other requirements
- Setting environmental objectives and targets
- Formulating action plans to achieve them

Implementation
- Defining roles and responsibilities (R2A2's), and providing resources (human, financial, technical)
- Training employees
- Establishing communication channels
- Documenting how the EMS works
- Controlling EMS documents
- Establishing procedures for controlling activities that can impact the environment
- Identifying potential emergencies and developing procedures for preventing and responding to them

Checking/Corrective Action
- Monitoring key sources of pollution and environmental performance
- Identifying and correcting problems to prevent recurrence
- Maintaining records
- Performing periodic environmental assessments

Management Review
- Reviewing and improving the overall EMS and environmental performance

What is "Compliance Assurance"?

Brookhaven's EMS emphasizes compliance assurance, which means:

- Making sure we identify, implement, and communicate environmental requirements to staff, visitors, and contractors;
- Working with support organizations to ensure that regulatory reports are submitted on time;
- Examining what we do and how we do it (self-assessment programs);
- Identifying and correcting our problems; and,
- Maintaining positive relationships with regulators.

For more information

The Environmental & Waste Management Services Division (EWMSD) can help. Visit our websites:

EMS: **www.bnl.gov/esh/ems**
P2: **www.bnl.gov/esd/pollutionpreve**
EWMSD: **www.bnl.gov/esd**

Call for assistance:

Pollution Prevention 5660
Regulatory Compliance 3148
Waste Management 7651
Sampling 7129
Emergencies 911 or2222

Or, contact your Environmental Compliance Representative, ESH Coordinator, or Management Representative on EMS.

To submit an anonymous concern, call the BNL Safety Hotline at ext. 8800.

NSF
REGISTERED TO ISO 14001: 1996

BROOKHAVEN NATIONAL LABORATORY

What You Need to Know

- How your work can impact the environment
- How these impacts can be prevented
- What to do in case of emergency
- What the consequences of not following procedures could be
- How your actions can improve Brookhaven's environmental performance

Your Responsibilities

- Follow environmental requirements
- Prevent pollution, or "P2"
- Suggest improvements
- Look at problems as opportunities-- and help solve them!

What is an Environmental Management System?

An Environmental Management System (EMS) is a way to integrate environmental considerations into every part of the Laboratory's work. BNL's EMS will help us improve environmental performance, gain community trust, reduce costs, and achieve compliance with the law. An EMS is a tool to manage, control, measure and reduce our environmental impacts.

By identifying the causes of environmental problems, it enables us to understand not only *what* happened, but also *why* it happened. Then we can improve the system and prevent future problems.

What are ISO 14000 and 14001?

The International Organization for Standardization (ISO) developed the ISO 14000 series of standards for organizations to use worldwide. ISO 14001 specifies the requirements for an EMS, and recognizes achievement with a registration process.

What does registration entail?

An independent accreditation firm visits the lab to "register" BNL's EMS and ensure it meets all the ISO 14001 requirements. For the audit, not only do environmental policies and procedures have to be accurately documented, but staff must also follow them. During the audit, you may be asked questions like, "what is included in BNL's environmental policy?" or "how do you find out what environmental requirements apply to your job?"

Brookhaven's Environmental Stewardship Policy

It is Brookhaven National Laboratory's (BNL) policy to integrate environmental stewardship into all facets of the Laboratory's missions. We will manage our programs in a manner that protects the ecosystem and employee/public health. In support of this policy, BNL makes the following commitments:

We are committed to achieving compliance with applicable environmental requirements.

In consideration of the potential impacts of our activities on the environment, we will integrate pollution prevention/waste minimization, resource conservation, and compliance into all of our planning and decision-making. We will adopt cost-effective practices that eliminate, minimize or mitigate environmental impacts.

We will define, prioritize and aggressively correct and clean up existing environmental problems.

We will work to continually improve our environmental management system and performance. We will establish appropriate environmental objectives and performance indicators to guide these efforts and measure our progress.

We will maintain a positive, proactive and constructive relationship with our neighbors in the community, regulators, the Department of Energy, and our other stakeholders. We will openly communicate with stakeholders on our progress and performance.

All staff have a role in achieving the policy commitments.

In addition to my annual review of Brookhaven's progress on environmental goals and adherence to this policy, I invite all interested parties to provide me with input on our performance relative to this policy, and the policy itself.

Laboratory Director

To implement this policy, we need your help

The Lab Director can't implement this policy alone. That's where you fit in. Read on to find out what is expected from all staff.

• Compliance Assurance

Make sure you know how to comply with the environmental regulations that apply to your job. The Standards-Based Management System (SBMS) will help you do this by providing the procedures that must be followed.

• Pollution Prevention (P2)

Central Shops now cleans parts without hazardous solvents by using a new, more effective process. Think-- *How can my work be redesigned to use less hazardous material?* P2 techniques reduce disposal costs, minimize the chance of spills, lead to a safer workplace, and eliminate regulatory requirements.

• Clean-up

The amount of money BNL spends today to clean up the results of past disposal practices is the best illustration of the importance of pollution prevention.

• Continuous Improvement

To improve our environmental performance, we measure our levels of emissions and effluents, set goals to reduce them, and work to achieve these goals. Get involved! Make suggestions on how to reduce emissions. If a procedure doesn't make sense or won't work for you, then help change it.

• Outreach

Employees who live in the surrounding communities are our best ambassadors. By sharing our accomplishments with our neighbors, we can allay community concerns.