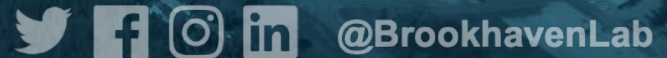




TAKE FIVE for Safety- Environmental Management and Recent Feedback

Frank Craner

July 16, 2024



Environmental Management System (EMS)

EMS is:

- A structure for managing **environmental aspects** over which BNL can be expected to have control.

EMS helps BNL:

- Manage Risk and Liability
- Provide assurance to stakeholders
- Promote a positive image to the community
- Reduce negative environmental impact

Environmental, Safety, Security, and Health Policy



Brookhaven National Laboratory (BNL) is a world leader in scientific research and performs this work in an environmentally responsible and safe manner.

Every employee, contractor, and guest is expected to take personal responsibility for adhering to the following principles:

Environment	We protect the environment, conserve resources, and implement sustainable business practices that protect our future.
Safety	We maintain a safe workplace. We plan our work and perform it safely. We take responsibility for the safety of ourselves, coworkers, and guests.
Security	We protect people, property, information, computing systems, and facilities.
Health	We protect human health within our boundaries and in the surrounding community.
Compliance	We achieve and maintain compliance with applicable ESSH requirements.
Community	We maintain open, proactive, and constructive relationships with our employees, neighbors, regulators, the U.S. Department of Energy, and other stakeholders including historically marginalized, disadvantaged communities.
Continual Improvement	We continually improve ESSH performance.

In addition to my annual review of Brookhaven Lab's progress on ESSH 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.

Signed *JoAnne L Hewett*
 JoAnne Hewett, Director

December 5, 2023



Routine activities that impact the environment

- Storage, transfer, use and waste handling of oils, chemicals or solvents
- Disposal of wastewater
- Parts cleaning
- Surface coating
- Soil Activation/storm water cap maintenance
- RHIC facility modifications (Peconic River/Tree Maintenance)
- Use of electricity and water
- Purchase and use of equipment or materials.

Environmental aspects of routine activities

Regulated Industrial, Hazardous, Radioactive, and Mixed Waste Generation

Atmospheric Discharges

Liquid (wastewater) Discharges

Storage or Use of Chemical or Radioactive Materials

Water Consumption

Power Consumption

Historical/Cultural Resources

Sensitive/Endangered Species and Sensitive Habitats

Historical Contamination

Soil Activation

Environmentally Preferable Purchasing

Our responsibilities with regard to environmental management

Comply with Laboratory policies, standards, procedures

Identify and understand the environmental risk and impact of **your** work

Provide input on controls/work practices to minimize risk

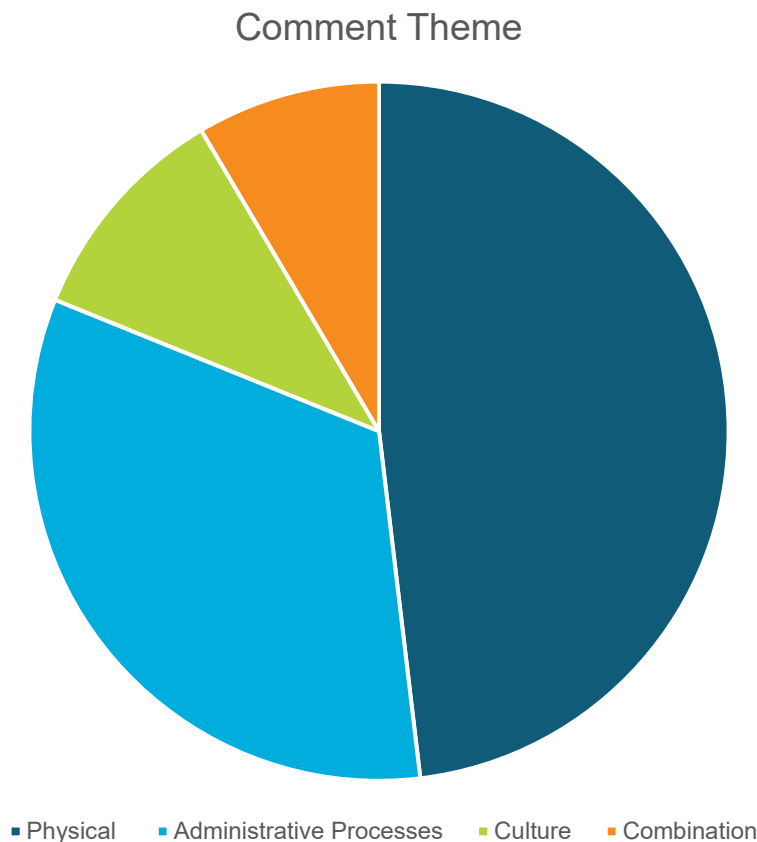
Apply pollution prevention/waste minimization techniques to your work

Report spills, emergency situations, alarms, as appropriate by calling x2222 or 911

Your Environmental Compliance Representative
ESHQ Division's: **Bob Metz**

Your Environmental Management Representative
C-AD ESH Manager: **Frank Craner**

DOE Day of Reflection Feedback Received from C-AD Groups



Comments Received Related to Culture

- Uncertainties
- Perception of Statements
- Trust
- Value of People
- Morale
- Understanding of Changes
- Communication/Rumors
- Role of Safety Group
- Balance between Safety of Individual and Compliance

Efforts To Improve...

Physical (Facility and Work)	Administrative Processes	Culture
Inspections	Procedures Project	Communication
Addressing Daily Concerns	Ensuring Consistency with Lab Processes	Role of the ESH group
Readiness Reviews		Safe Conduct of Research
Work Planning		

An Element of Safety Culture

Staff Raise Safety Concerns Because Trust Permeates The Organization:

- You can't fix what you don't understand; staff are encouraged to raise concerns and report problems.
- Science leaders create an environment of inquisitiveness as the norm to counteract the tendency of students, postdoctoral fellows, and junior staff to view uncertainty as a sign of professional weakness.
- Anyone can respectfully challenge unsafe behavior regardless of his or her position in the organization; these challenges should be accepted graciously as an opportunity to improve.

See BNL Safe Conduct of Research publication