

## Policy

Section	Number	Title	Effective Date	Supersedes
Environment, Health, and Safety	6-1	<b>Integrated Safety Management and Environmental Management</b>	11/20/13	2-1 dated 10/01/12 6-1 dated 07/14/09 6-2 dated 11/15/12 6-3 dated 01/11/10 6-4 dated 12/13/12 6-5 dated 09/29/09

In support of NREL's mission and values, the Laboratory commits to:

- Conducting work in a manner that protects the health and safety of workers and the public, Laboratory property, and the environment
- Preventing pollution
- Practicing environmental stewardship
- Preventing injury and ill-health
- Complying with requirements
- Continually improving environment, health, and safety (EHS) management.

The Laboratory implements these commitments through:

- Integrating EHS management with NREL work activities.
- Establishing goals and mechanisms for Laboratory-wide feedback and improvement and reporting concerns
- Identifying requirements and adopting protective EHS standards
- Identifying workplace hazards, assessing the associated risk of injury, illness, or environmental impact, and implementing hazard control
- Implementing programs for worker safety, occupational health, and the protection of property and the environment
- Providing training to workers tailored to their needs and the work environment
- Conducting inspections, assessments, and monitoring
- Conducting accurate and timely reporting and recordkeeping

The Laboratory's integrated safety and environmental management approach is applied as a continuous cycle with the degree of rigor appropriate to address the type of work activity and the hazards involved according to the following guiding principles and core functions.

### Guiding Principles

- **Responsibility for Safety.** Line management is responsible for the protection of workers, the public, and the environment.
- **Clear Roles and Responsibilities.** Laboratory-level procedures establish and maintain clear and unambiguous lines of authority and responsibility for EHS.
- **Competence Commensurate with Responsibilities.** Workers possess and maintain adequate knowledge, skills, and abilities to meet their responsibilities in a safe and competent manner.
- **Balanced Priorities.** NREL allocates sufficient resources to address safety, programmatic, and operational considerations. Protecting workers, the public, and the environment is a priority in planning and performing work activities.
- **Identification of Safety Standards and Requirements.** In accordance with Laboratory-level procedures and before work is performed, NREL workers evaluate the associated hazards and environmental impacts and agree on a set of safety standards and requirements that provide adequate protection to workers, the public, and the environment from adverse consequences.
- **Hazard Controls Tailored to Work Being Performed.** NREL prevents and mitigates hazards by tailoring hazard controls to the work being performed and the associated hazards. NREL selects hazard controls based on the following hierarchy:
  - Eliminate or substitute with lesser hazards where feasible and appropriate.
  - Implement engineering controls where feasible and appropriate.
  - Implement work practices and administrative controls that limit worker exposures.
  - Use personal protective equipment.
- **Operations Authorization.** NREL establishes conditions and requirements that must be satisfied before operations are initiated and conducted.

### Core Functions

- **Define the Scope of Work.** Translate missions into work, set expectations, identify and prioritize tasks, and allocate resources.
- **Analyze the Hazards.** Identify, analyze, and categorize hazards and potential environmental impacts associated with the work.
- **Develop and Implement Hazard Controls.** Identify and agree upon standards and requirements, identify controls to prevent/mitigate hazards, establish the safety parameters, and implement controls.
- **Perform Work Within Controls.** Confirm readiness and perform work safely and in the prescribed manner to protect workers, the public, and the environment.

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- **Provide Feedback and Continuous Improvement.** Gather feedback on the adequacy of controls from workers and appropriate stakeholders, identify and implement opportunities for improvement, and conduct line management and independent oversight.

Workers have the authority to stop work and the work of others upon discovery of imminently dangerous conditions or other serious hazards to workers, the public, or the environment, and are not subject to reprisal or retaliation.

Dan Arvizu
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<i>Original signed document on file in Requirements Management</i>