



# Princeton Plasma Physics Laboratory's **Integrated Safety Management**

*Integrated Management of Environment, Safety, Health and Security = ISM*

Revision 5

October 2003



Princeton Plasma Physics Laboratory's  
**Integrated Safety Management**

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Princeton Plasma Physics Laboratory's  
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**Director's Statement of Commitment to  
Integrated Safety Management**

The DOE Princeton Plasma Physics Laboratory is a Collaborative National Center for plasma and fusion science. Our primary mission is to develop the scientific understanding and the key innovations which will lead to an attractive fusion energy source. Associated missions include conducting world class research along the broad frontier of plasma science and providing the highest quality of scientific education. Our vision is to create the innovations which will make fusion energy a practical reality.

Over the years our environment, safety, health, and security programs have achieved excellent results. This is because it is an integral part of our culture – it is embodied in everything that we do. This Integrated Safety Management document provides a clear framework for incorporating safety and environmental considerations into the management and performance of all Laboratory work activities. It strongly reinforces our policy that the responsibility for environment, safety, and health resides with each individual and every line manager.

We are committed to the principles, functions, and controls described in this plan and we will continually apply the principles of integrated safety and environmental management as we fulfill our responsibilities and commitments to each other, the University, DOE, and the public.

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Robert J. Goldston, Director

## I. Introduction

This document describes the structure and implementation of Integrated Safety Management at Princeton Plasma Physics Laboratory (PPPL). Integrated Safety Management at PPPL is accomplished consistent with DOE policy, requirements, and guidance in a manner that applies controls and precautions tailored appropriately to the hazards of the projects and work being performed.

## II. PPPL's Integrated Safety Policy and Philosophy

Integrated Safety Management (ISM) at PPPL is comprised of:

- The governing policy that safety be integrated into work management and work practices at all levels.
- The distinct policies, programs, procedures, and cultural beliefs that we have developed as the structure that our workers utilize in fulfilling our Laboratory's environment, safety, and health responsibilities.

Although the term "integrated safety management" has only become prevalent in recent years, integrating safety, environment, and security into the management of work and into work practices has been the Laboratory's philosophy and practice for years. ISM is a socially responsible philosophy that is inherent to our Laboratory's primary programmatic mission – develop the scientific understanding and the key innovations that will lead to an attractive fusion energy source.

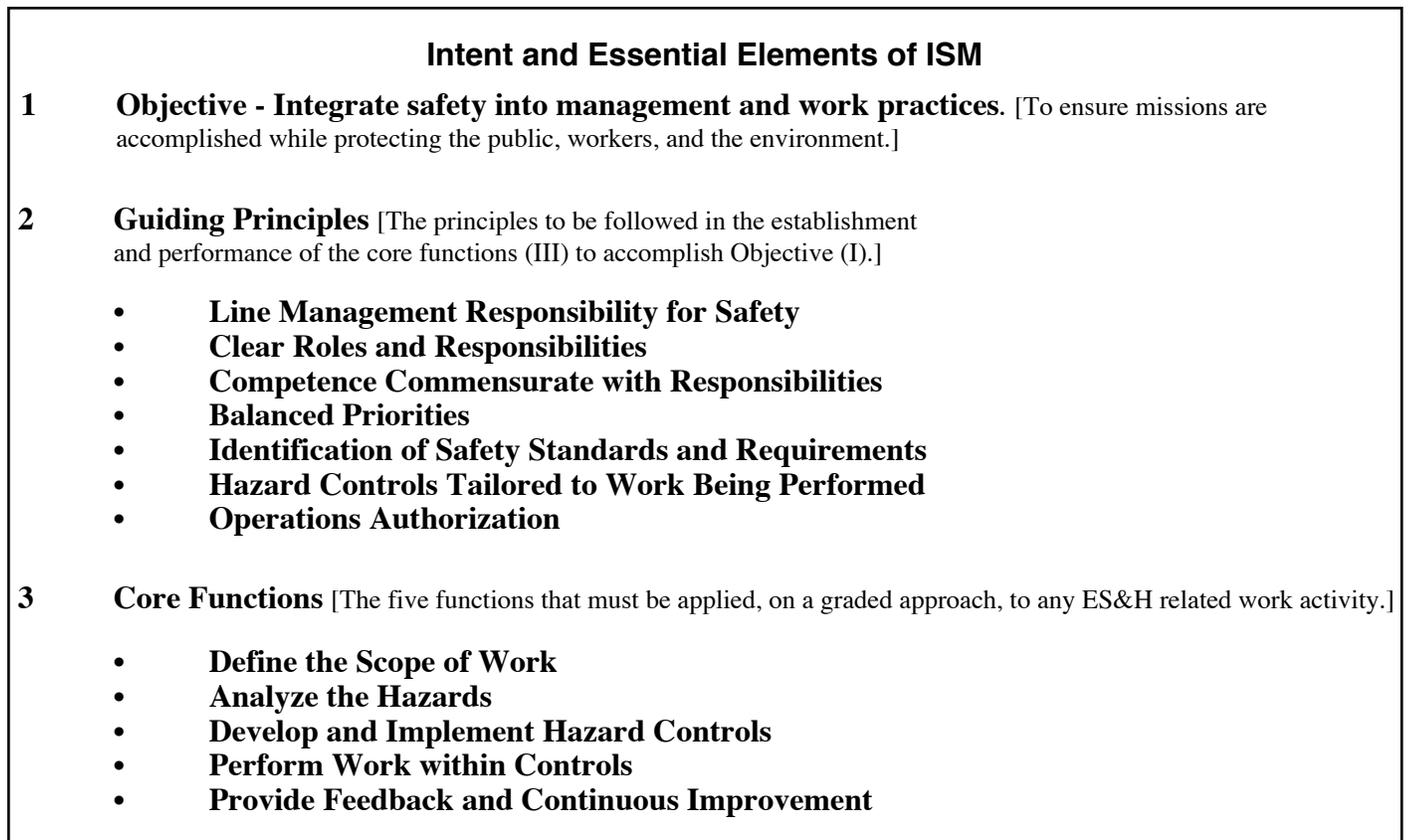
The Department of Energy embraces the ISM philosophy and has issued DOE Policy 450.4, Safety Management System Policy. The Policy consists of six hierarchical components that provide guidance and requirements to the Department and its contractors for achieving the "Objective" of systematically integrating safety into management and work practices at all levels. Further, DOE Order 450.1 directs the Department and its contractors to incorporate Environmental Management system (EMS) principles into their ISMS.

PPPL fully endorses the components of the DOE Policy as a sound methodology for effectively attaining integrated safety management. The PPPL ES&H Program was built on the

very concepts discussed in the Policy and is comprised of well established safety policies, procedures and practices that have helped our workers successfully implement ISM for years.

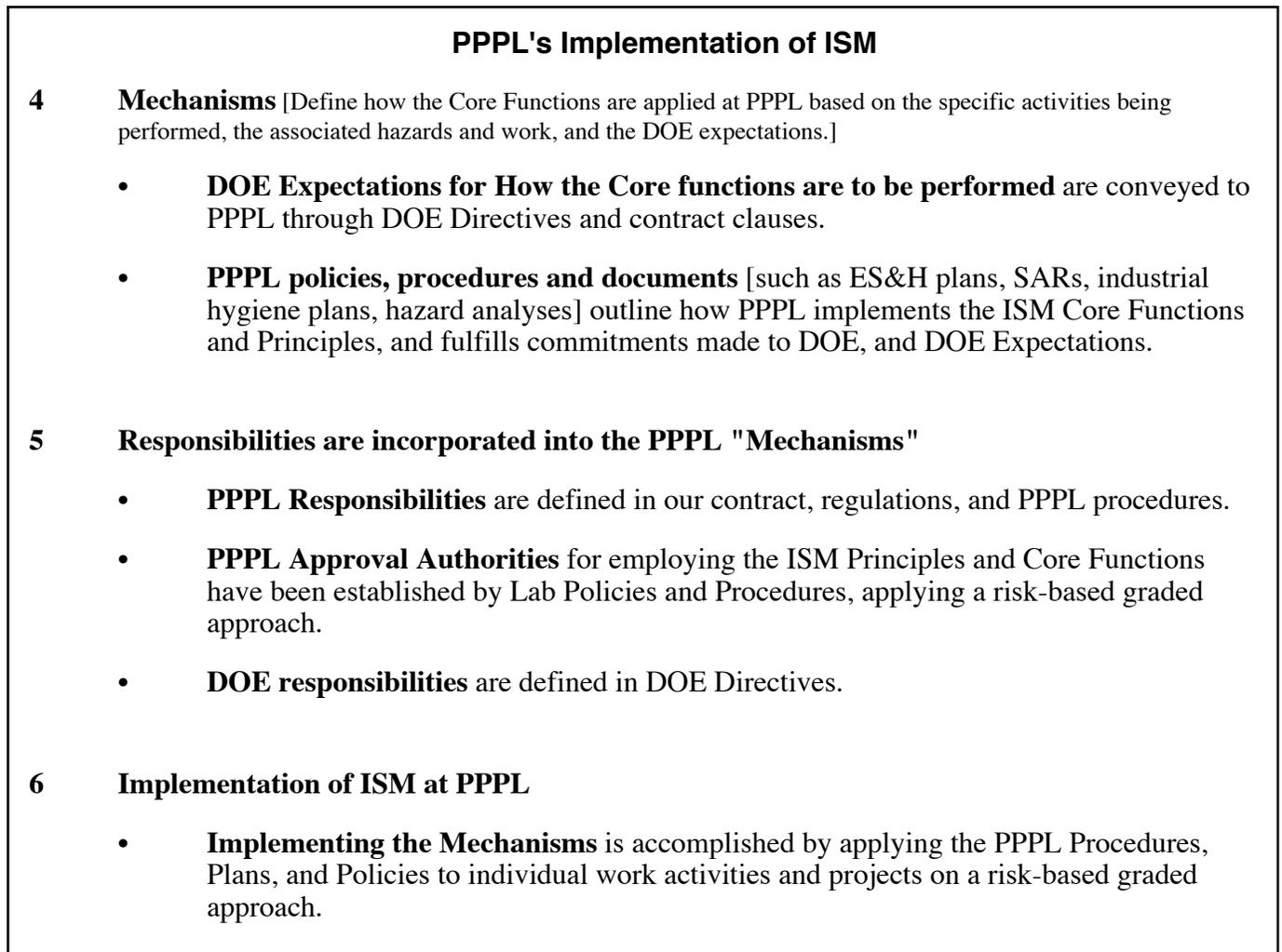
The first three components of the DOE ISM Policy (Objective, Guiding Principles, and Core Functions) are to be consistently applied at all DOE facilities. Component 2 identifies seven "Guiding Principles" that are to be followed while applying the other components of ISM. Component 3 provides five safety management "Core Functions" as the steps that must be taken to attain the ISM "Objective" of integrated safety. These three components are explained further in Figure 1 below.

**Figure 1**



The other three components of ISM (Mechanisms, Responsibilities, and Implementation) are established by the DOE contractors for the work they perform and vary based on the nature and hazards of the specific activity. This system description describes the mechanisms, responsibility assignments, and implementation of ISM at PPPL that implements the DOE Policy elements in a manner appropriately tailored to the hazards of projects and work being performed. Figure 2 below provides an overview.

**Figure 2**



### III. PPPL's Implementation of Integrated Safety Management

Implementation of ISM at PPPL begins at the Institutional or Lab-wide level by:

- 1) Identifying the governing requirements, customer expectations, and responsibilities that must be fulfilled in the management and operation of Laboratory activities. This step results in the "umbrella" of standards encompassing Laboratory activities that includes applicable DOE Directives, laws, regulations, contractual requirements, and industry standards.
- 2) Developing Laboratory policies, plans, and procedures, based on the "umbrella" of governing requirements and expectations, to guide work activities and ensure responsibilities and commitments are met.

These two steps, performed on a continuous cycle, form the foundation of ISM at the institutional level, but to truly accomplish the integration of safety and environmental considerations into management and work at all levels, PPPL implements ISM on two additional levels -- the facility or project level, and specific to each work activity being performed.

Whether at the institutional, project, or activity level, the main focus of ISM is that all work be performed safely. This is accomplished by applying the "Core Functions" of ISM to all work in a five step process:

1. Define the Scope of Work
2. Analyze the Hazards
3. Develop and Implement Hazard Controls
4. Perform Work within Controls
5. Provide Feedback and Continuous Improvement

The "mechanisms" that PPPL has developed to implement these core functions are defined in Lab-wide, Department, Project, and work group policies, plans, and procedures. Laboratory staff and other individuals who work at PPPL are expected to be familiar with the established systems and documents. A detailed listing of these Lab-wide "mechanisms" can be found in Attachment 1. The listing shows applicable policies, plans, procedures, and manuals along with the corresponding ISM "guiding principles". Specific procedures developed by individual

projects (e.g., procedure OP-AD-09 which details the requirements for obtaining a permit to perform work on the D-Site experimental facilities) also become part of the overall integrated safety management system for that project. They are not included in Attachment 1, but simply noted generically as project specific procedures. Attachment 2 shows how the major PPPL policies, plans, procedures, and manuals are applied to each work activity to implement the five-step ISM functions.

### **PPPL Integrated Safety Management Processes, Programs, and Systems**

DOE provides their expectations and requirements for PPPL in the form of Directives, contract clauses, performance objectives, and in the Environment, Safety, and Health Policy Statement issued directly by the Secretary of Energy (Attachment 3). This includes Directives that charge the Laboratory with identifying hazards and performing safety analyses (for example DOE 451.1B *National Environmental Policy Act Compliance Program* and DOE 420.1 *Facility Safety*). In addition, DOE requires integration of environmental programs into Integrated Safety Management Systems under DOE Order 450.1 *Environmental Protection*. The PPPL policies, procedures, and documents (ISM mechanisms) listed in Attachments 1 and 2 show how PPPL meets those DOE expectations and requirements by implementing the Principles and Core Functions of ISM (see Figure 2). Discussion of the most essential of the PPPL ISM "mechanisms" follows.

PPPL's commitment to strong ES&H programs, the importance of protecting the environment and the safety of workers and the public, and the belief in line management responsibility for achieving these objectives are illustrated prominently in Laboratory policies and procedures and well understood by all employees. Laboratory policies P-002 *Environmental Protection* and P-003 *Environment, Safety, and Health Policy*, signed by the Laboratory Director, clearly state the Laboratory's commitment to the principles of integrated safety management and describe the goals of PPPL's ES&H programs.

Laboratory plans that set institutional level goals, objectives, and controls include Environmental Monitoring, Environmental Protection Implementation, Radiological ALARA, Radiation Protection and General Plant Project (GPP) Prioritization. Institutional committees comprised of senior and line management are well established and include the ES&H Executive Board, the Safety Review Committee, the Environmental Review Committee, the Cyber Security Policy Review Board, the ALARA Review Committee, and the Technical

Resources Committee. These committees have intimate awareness and involvement with ES&H and security issues that have potentially broad Laboratory impacts.

The NEPA review process is well established at PPPL (reference procedure ESH-014), having won DOE-wide recognition for its effectiveness and method of application. The NEPA process is a cornerstone of the integrated safety and environmental protection program that ensures line management, line workers, and independent safety professionals have thoroughly reviewed proposed activities, analyzed the associated hazards, and developed appropriate controls. Over recent years, the PPPL NEPA process has become much more comprehensive. The safety analysis and review system has been folded into the NEPA process so that reviews now include all safety and health issues in addition to environmental impacts. NEPA reviews incorporate activities at all levels including major projects and limited scope work activities. The need for careful planning and review of activities is ingrained in the work force and management. NEPA review activities are invoked during the initial stages of projects, prior to project modifications, and during routine work planning. When workers arrive on site they are provided with General Employee Training where they are taught the NEPA process and introduced to the tenets of line management responsibility and individual worker responsibility for ES&H. These essential elements are emphasized continually at management talks, design review meetings, and job specific training sessions.

ES&H integration begins with the proposal of a project, facility modification, or specific work scope tasks. Proposed activities are identified, reviewed, prioritized, and scheduled using work planning forms, work authorizations, field work proposals, work orders, GPP proposals, and design change proposals. Safety reviews and oversight are integrated into these schedules and activity budgets. These methods of work proposal and authorization trigger the NEPA review process and related ES&H activities. General Plant Projects undergo review by the Technical Resources Committee and are prioritized in accordance with Capital Asset Management Process (CAMP) risk criteria. Detailed reviews of the ES&H aspects of the work are performed that include identification, analyses, and categorization of the hazards according to DOE Order guidance and Laboratory and project procedures.

These reviews and analyses result in documented Environmental Assessments, permit applications, NEPA forms and approvals, safety assessment documents (SADs), work planning form approvals, and safety certifications. Depending on the hazard levels, operating procedures are developed, design reviews are conducted, and conduct of operations plans are developed to specify administrative controls, security precautions, safety controls, safety programs, and other conditions on the work. Work packages, job procedures, maintenance and

work plans, and "safety envelopes" can also be developed. Appropriate input from multiple disciplines of line management and line workers is an essential part of the review and development of these documents and controls. The PPPL Work Planning Procedure has matured as a tool for guiding the accountable individuals through ES&H and technical requirements and reviews. The Work Planning form clearly assigns responsibility for the planning of the work and is used to attain authorization from the line manager who has ultimate responsibility for the work. Another important ES&H tool is the Job Hazard Analysis procedure and form. The "JHA" is a two-page form that efficiently guides workers and job supervisors to consider the multitude of hazards that may be associated with a work task and also to plan the appropriate controls to mitigate the actual hazards for the particular job.

Depending on hazard categorizations, operational readiness reviews or readiness assessments are conducted prior to commencement of work activities. Worker qualification is ensured and appropriate training is provided using existing Laboratory training courses or by developing specialized courses. Pre-job briefs are also conducted with line workers and supervisors to assure awareness of the existing hazards and controls that are to be implemented.

During the conduct of work activities, Laboratory control systems are utilized such as configuration management; ES&H oversight, using professionals in the areas of health physics, industrial hygiene, occupational medicine, industrial safety, fire safety, environmental management; and quality audits and inspections. These systems, based on industry and DOE standards and Directives, provide assurance that safe work practices are followed and are in accordance with laws and regulations.

Work activities are assessed and performance is measured using contractual performance measures, self-assessments, independent assessments, Unified Safety Reviews (USRs), experiment run assessments, post-job briefs and audits. The Laboratory works closely with DOE Princeton Area Office (DOE-PAO) to establish performance expectations and measures. That cooperation carries over to the daily and periodic activities that PPPL and DOE-PAO perform to assess and assure that those expectations are met or exceeded by Laboratory performance. That DOE/PPPL partnership and commitment to performance excellence is exemplified by extraordinary cooperation in the scheduling and conduct of USRs, emergency response drills, Business Oversight Reviews, facility walkthrough inspections, surveillance of work activities, and participation in design and program reviews and planning. Beginning in FY2003, the Lab began implementation of the "Integrated ES&H Assessment Schedule". The schedule integrates PAO, PPPL and external ES&H assessment activities for the Fiscal Year

into a comprehensive plan for assessing the PPPL ISM program. This integrated approach considers all ES&H areas and results in the efficient allocation of PPPL and PAO assessment resources where they are most warranted. The schedule, which is coordinated by the ES&H and Infrastructure Department Office, is considered a “living document” and is updated as assessments are completed, added or rescheduled. At the end of each Fiscal Year, the matrix serves as a tool to help evaluate PPPL’s overall ISM performance, and subsequently determine what assessments are warranted for future years.

Laboratory ES&H performance is reported in several ways. Recordable injuries, lost work cases, and lost work days are tracked and made available to Laboratory management and DOE in accordance with DOE Orders and OSHA requirements. Contract performance metrics, assessment results, progress reports, and other performance indicators are published frequently. When appropriate, root cause analyses and incident investigations are performed and the results are followed-up and shared via Laboratory, DOE, and industry lessons learned programs –the objectives being to improve PPPL programs and activities, preventing recurrence of negative events, and helping other Laboratories and facilities do the same. A new method to communicate lessons learned and heighten worker awareness of ES&H issues is the new ES&H Newsletter that began publication in November 2002 and is issued every 30 to 60 days.

Individual's work activities and awareness to ES&H principles are also assessed by use of personnel performance appraisals, small group meetings, frequent supervisor-worker discussions, management walkarounds as well as co-worker dialogue. These means are also used effectively to solicit line worker feedback and suggestions, as well as reinforce the principle of personal responsibility for safety. Every employee is made aware of their right and responsibility to stop any unsafe activities. This is a written Policy that is well understood and taken very seriously.

Assigning responsibility for specific Laboratory areas and facilities to individuals and their supervisors and providing them with increased ES&H training has heightened all worker's awareness of safety and improved ES&H performance. Evolving from the institutional level Facility Manager (FM) program and precursor programs, PPPL has seen line supervisors, managers, and workers take more responsibility and ownership for the safety of their facilities and work activities in recent years. At this point, the concept of line responsibility is integrated with the organization structure for the Laboratory and entails varying levels of responsibility and authority.

At the worker level, these accountabilities focus on issues that include, for example:

- the proper use of personal protective equipment;
- the proper use of safe tools and equipment;
- the proper use of applicable operating and safety procedures;
- the proper application of housekeeping practices;
- waste minimization;
- the adherence to security and access controls; and
- the identification of any noncompliances to the cognizant supervisor.

The Job Hazard Analysis (JHA) procedure is a tool that helps workers and supervisors meet their accountabilities by increasing worker involvement in safety planning for activities. The JHA process initiates worker involvement during the identification of hazards and controls and sustains their involvement via pre-job and post-job briefs.

At the cognizant supervisor level, accountabilities are broadened and focus on issues that include, for example:

- the availability of necessary protective equipment;
- maintaining an awareness of work being performed in geographic areas for which he or she is responsible;
- ensuring that any hazards associated with work performed by his/her employees are evaluated in accordance with PPPL policies and procedures;
- performing periodic walkthroughs of the work place and work activities to ensure safe work practices are being followed;
- establishing appropriate access controls;
- ensuring that employees under his/her supervision are provided with necessary training and are performing their duties in a competent manner;
- following up with the ES&H Division on safety incidents and accidents; and
- the remediation of safety related noncompliances, either through direct action (when appropriate) or through identification to another cognizant authority (e.g., the Maintenance or ES&H organizations).

At the line manager level, accountabilities are general in nature and focus on issues that include, for example:

- the provision of necessary resources (both human and financial) for the safe performance of work;
- performing periodic walkthroughs of the work place and work activities with cognizant supervisors;

- following up on the correction of safety related noncompliances; and
- identifying significant issues or incidents to the cognizant Facility Manager.

At times, issues arise which are beyond the control and authority of individual line managers. Examples could include the need to modify a facility structure in order to provide appropriate lighting, ventilation, safety features, etc. In these cases, the Laboratory organization includes two Departments (“Engineering and Technical Infrastructure” and “ES&H and Infrastructure Support”) which have the responsibility and authority for addressing these global issues. While considering ES&H aspects of these issues, the Departments determine the appropriate priorities for resolving the issues by re-evaluating the Work Order queue or applying the GPP prioritization process, as appropriate. Furthermore, these two Departments fulfill the Facility Manager responsibilities outlined in the DOE Occurrence Reporting process. The Head of the Engineering and Technical Infrastructure Department provides facility management support for technical/ experimental facilities, which include D-Site; and specific experimental facilities at C-Site (the Laboratory Wing; the COB, CS, RF and MG Building complex; and the CAS/RESA Buildings). The Head of the ES&H and Infrastructure Support Department provides facility management support for the remaining buildings, grounds and property at C-Site. Responsibilities for these two Department Heads include, for example :

- ensuring that requisite administrative, safety, and security programs and policies are established;
- maintaining an awareness of activities (e.g., renovations, modifications, construction, etc.) which affect multiple buildings/facilities;
- performing periodic walkthroughs of the work place and work activities with responsible line managers; and
- ensuring that cognizant DOE Facility Representatives are kept apprised of safety-related issues.

PPPL has realized the value of applying the core functions and principles of ISM. By systematically and continuously implementing the five-step process defined by the ISM core functions [Define the Scope of Work, Analyze the Hazards, Develop and Implement Hazard Controls, Perform Work within Controls, and Provide Feedback and Continuous Improvement] PPPL has consistently maintained outstanding performance in ES&H and Security and an effective ISM program.

## Responsibilities

General ES&H responsibilities for PPPL workers and managers are defined in the PPPL document O-027, "Line Management safety Organization". Additional specific personnel responsibilities are clearly defined in documents for specific activities. Laboratory and subcontractor responsibilities are defined in contracts, regulations, and procedures. Project and work approval authorities are specified for employing safety principles and functions dependent on hazard levels. The Department of Energy maintains responsibility for the safe and secure operation of all DOE facilities. Through the established DOE chain of command, line management ES&H, security and Program responsibilities are passed down and shared [from the Secretary of Energy to Program Officials (DOE-SC, DOE-OFES, DOE-EM) onto field offices (DOE-CH) to the site offices (Contracting Official, DOE-PAO.) The overriding ES&H management and programmatic responsibilities for the Laboratory have been entrusted to PPPL by the DOE. These responsibilities are firmly rooted with the Laboratory Director and Deputy Director. The Laboratory's ES&H responsibilities flow down to all Laboratory managers and workers through the Head of the ES&H and Infrastructure Support Department, the Head of the ES&H Division, the ES&H Executive Board, and through all Department and Project Heads. Management responsibility for Department and Project activities and programs is depicted by the PPPL Organization chart (Attachment 4.)

The Laboratory is responsible for compliance with the ES&H requirements applicable to the contract regardless of the performer of the work. This responsibility includes the safety of all on-site subcontractor organizations. Subcontractors must meet PPPL specified safety and security expectations. Basic required safety management elements are listed in subcontract Terms and Conditions. Subcontracts provide the Laboratory with the right to stop work that does not comply with ES&H regulations and requirements. Subcontracts involving complex or hazardous on-site work include appropriate requirements/clauses substantially the same as Department of Energy Acquisition Regulations clause 48 CFR 970.5204-2 "Integration of environment, safety, and health into work planning execution." Also, depending on the complexity and hazards associated with the work, PPPL may require that the subcontractor submit a Safety Management program and implementation plan for PPPL's review and approval. Subcontractors and visitors are subject to the same security and access controls that apply to employees. Each subcontractor and visitor must have an authorized PPPL host prior to being given site access. Laboratory employees who are responsible for writing Statements-Of-Work, or who otherwise bring subcontractors to the Laboratory, work with the Procurement Division, ES&H Division, and Materiel and Environmental Services Division to ensure that appropriate ES&H requirements are included in subcontracts and met.

#### **IV. Attachments**

1.    PPPL ISM Related Procedures, Policies, Plans, Programs Listing
2.    PPPL ISM Functions Matrix
3.    DOE Secretary of Energy Policy Statement on Environment, Safety and Health
4.    PPPL Organization Chart

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 1**  
**Line Management Responsibility for Safety**

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**PPPL Implementing Document**

POLICIES

- P-001 Graded Approach
- P-002 Environmental Protection
- P-003 Environment, Safety and Health Policy
- P-004 Quality Assurance
- P-006 Conduct of Operations
- P-007 Operational Problem Identification and Resolution
- P-008 Staff Training and Development
- P-010 Design Reviews
- P-012 Stop Work Authority
- P-013 Use of Procedures
- P-014 Radioactive and Hazardous Waste Minimization
- P-015 Records Management
- P-017 Working Alone
- P-019 Occupational Medicine Policy
- P-020 Policy for Research Sponsored by Non-DOE Entities
- P-026 Assessment and Oversight
- P-027 ALARA
- P-028 Subcontractor Training Requirements
- P-029 PPPL Examination Program
- P-032 Hierarchy of Documents
- P-033 Unauthorized Persons in the Workplace
- P-036 Asbestos Management
- P-037 Software Quality Assurance
- P-038 Control of Hazardous Energy Sources
- P-039 Hazard Analysis and Controls
- P-041 Suspect Parts
- P-044 ES&H and Infrastructure Support Department External Audits and Appraisals
- P-045 Working on Rotating Equipment
- P-048 Safety Analysis and Review System Program
- P-049 Authorization for Work on Electrical Systems
- P-052 Special Processes
- P-062 Reduction of Ozone Depleting Substance Emissions
- P-071 Inspection and Acceptance Testing
- P-072 Quality and Procurements
- P-075 Configuration Management
- P-076 Internal Communications
- P-077 Roles and Responsibilities for General Plant Projects
- P-078 External Correspondence Concurrence Signatures
- P-079 Identification and Control of Materials
- P-080 Variances to ES&H Regulations
- P-082 Affirmative Procurement
- P-083 Lessons Learned and Their Promulgation
- P-084 Management Safety Walkthroughs
- P-085 Environment Safety and Health Policy for Off-Site Work
- P-086 Calibration of Measuring and Test Equipment
- P-087 Roles & Responsibilities in PPPL Organizations
- P-089 Moratorium on the Release of Surplus and Scrap Materials

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 1 Continued...**  
**Line Management Responsibility for Safety**

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**PPPL Implementing Documents**

ORGANIZATION/MISSION STATEMENTS

- Technical Resources Committee Responsibilities
- O-003 ES&H and Infrastructure Support Department Charter
- O-008 Engineering and Technical Infrastructure Department Organization and Mission
- O-014 Human Resources Charter
- O-021 ES&H Executive Board Charter
- O-022 Safety Review Committee Charter
- O-023 Environmental Review Committee Charter
- O-024 ALARA Review Committee Charter
- O-025 Electrical Safety Subcommittee Charter
- O-027 Line Management Safety Organization

PROCEDURES

- GEN-001 Policy, Procedure and Mission Statement, Development, Review and Approval
- GEN-004 Price Anderson Amendments Act Non-Compliance Determination and Reporting
- GEN-006 Occurrence Reporting and Processing of Operations Information
- GEN-007 PPPL Review and Implementation of Laws, Regulations, Standards, and DOE Directives
- GEN-008 Coordination of Visits and Assignments to PPPL and Site Access Requirements
- GEN-009 GPP Prioritization
- GEN-011 ES&H Deficiency Reporting
- GEN-015 Procedure for Research Sponsored by Non-DOE Entities
- GEN-025 PPPL Foreign Visits and Assignments Program
- ESH-001 Use of Safety, Accident Prevention, and Equipment Protection Tags
- ESH-002 Facility Safety Signs
- ESH-004 Job Hazard Analysis
- ESH-008 Access to Radiologically Controlled Areas (RCAs)
- ESH-013 Non-Emergency Environmental Release - Notification and Reporting
- ESH-014 NEPA Review System
- ESH-015 Hazard Assessment by Emergency Response Zone
- ESH-016 Control of Hazardous/Energy Sources-Safing/Lockout/ Tagout
- EWM-001 Hazardous Waste Management
- EWM-004 Satellite Accumulation Areas
- EWM-005 Asbestos Management Services
- QA-002 PPPL Audit Program
- QA-003 Procurement Quality Assurance
- QA-004 PPPL Site Inspection Program
- QA-005 Control of Nonconformances
- QA-012 Corrective Action Request
- QA-017 PPPL Tracking and Trending System
- QA-019 Root Cause Analysis
- QA-020 Identifying and Disposition of Suspect Parts
- ENG-002 Control of Measuring Test Equipment and Calibration
- ENG-005 General Plant Projects Administration
- ENG-006 Review and Approval of Specifications & Statements of Work
- ENG-007 Reliability, Availability & Maintainability (RAM) Modeling & Apportionment
- ENG-008 Failure Modes and Effects Analysis

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 1 Continued...**  
**Line Management Responsibility for Safety**

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**PPPL Implementing Documents**

PROCEDURES CONTINUED...

ENG-010    Control of Drawings, Software, and Firmware  
ENG-011    Interlock Key Control  
ENG-012    Identification & Control of Items  
ENG-014    Hydrostatic and Pneumatic Testing  
ENG-016    PPPL Preventive Maintenance Program  
ENG-019    PPPL Engineering Standards  
ENG-020    Project Management Plan  
ENG-021    Hoisting and Rigging Program  
ENG-024    Digging Permits  
ENG-025    Fire Seals, Fire Dampers, and Fire Doors  
ENG-026    Fire Detection and Suppression Systems  
ENG-027    Fire Barrier Penetration Seal Installation and Repair  
ENG-028    Core Boring, Cutting and Drilling  
ENG-030    PPPL Technical Procedures for Experimental Facilities  
ENG-032    Work Planning Procedure  
ENG-033    Design Verification  
PER-006    PPPL Guided Tour Program and Escort Responsibilities  
TR-001    Laboratory Training Program  
MC-004    Acquisition and Disposal of Excess Government Property  
MC-005    Shipment of Equipment/Material to Off-Site Location

OTHER DOCUMENTS

Environment, Safety and Health Manual  
Environmental Monitoring Plan  
FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in  
    Environmental Management  
Stormwater Pollution Prevention Plan  
Environmental Protection Implementation Plan  
Nuclear Materials Control and Accountability Plan  
Radiological ALARA Plan  
PPPL Radiation Protection Plan  
Institutional Quality Assurance Plan  
PPPL Engineering Standards  
Security Plan  
Cyber Security Program Plan  
PPPL Emergency Preparedness Plan  
ES&H Procedures  
Project/Department Procedures  
Safety Assessment Documents (SADs)

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 2**  
**Clear Roles and Responsibilities**

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**PPPL Implementing Documents**

POLICIES

- P-001 Graded Approach
- P-002 Environmental Protection
- P-003 Environment, Safety and Health Policy
- P-004 Quality Assurance
- P-006 Conduct of Operations
- P-008 Staff Training and Development
- P-009 Electrical Isolation During Emergencies
- P-012 Stop Work Authority
- P-014 Radioactive and Hazardous Waste Minimization
- P-015 Records Management
- P-017 Working Alone
- P-019 Occupational Medicine Policy
- P-020 Policy for Research Sponsored by Non-DOE Entities
- P-026 Assessment and Oversight
- P-027 ALARA
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- P-029 PPPL Examination Program
- P-033 Unauthorized Persons in the Workplace
- P-036 Asbestos Management
- P-037 Software Quality Assurance
- P-038 Control of Hazardous Energy Sources
- P-041 Suspect Parts
- P-044 ES&H and Infrastructure Support Department External Audits and Appraisals
- P-045 Working on Rotating Equipment
- P-046 Cable Tagging and Removal
- P-047 Employee Area Housekeeping
- P-049 Authorization for Work on Electrical Systems
- P-051 Review and Approval of Policies, Procedures, Plans, and Manuals
- P-062 Reduction of Ozone Depleting Substance Emissions
- P-071 Inspection and Acceptance Testing
- P-073 Blood Borne Pathogens
- P-076 Internal Communications
- P-077 Roles and Responsibilities for General Plant Projects
- P-078 External Correspondence Concurrence Signatures
- P-080 Variances to ES&H Regulations
- P-082 Affirmative Procurement
- P-083 Lessons Learned and Their Promulgation
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- P-087 Roles & Responsibilities in PPPL Organizations
- P-089 Moratorium on the Release of Surplus and Scrap Materials

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 2 Continued...**  
**Clear Roles and Responsibilities**

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**PPPL Implementing Documents**

ORGANIZATION/MISSION STATEMENTS

- Technical Resources Committee Responsibilities
- O-001 Laboratory Mission
- O-003 ES&H and Infrastructure Support Department Charter
- O-004 Advanced Projects Department Charter
- O-005 Off-Site Research Department Mission Statement
- O-008 Engineering and Technical Infrastructure Department Organization and Mission
- O-009 Experiment Department Mission Statement
- O-010 Theory Department Charter
- O-011 Security Integration Team Charter
- O-012 External Affairs Department Charter
- O-014 Human Resources Charter
- O-015 Business Operations Department Charter
- O-016 Plasma Science & Technology Mission Statement
- O-021 ES&H Executive Board Charter
- O-022 Safety Review Committee Charter
- O-023 Environmental Review Committee Charter
- O-024 ALARA Review Committee Charter
- O-025 Electrical Safety Subcommittee Charter
- O-027 Line Management Safety Organization

PROCEDURES

- GEN-001 Policy, Procedure and Mission Statement, Development, Review and Approval
- GEN-004 Price Anderson Amendments Act Non-Compliance Determination and Reporting
- GEN-006 Occurrence Reporting and Processing of Operations Information
- GEN-007 PPPL Review and Implementation of Laws, Regulations, Standards, and DOE Directives
- GEN-008 Coordination of Visits and Assignments to PPPL and Site Access Requirements
- GEN-009 GPP Prioritization
- GEN-011 ES&H Deficiency Reporting
- GEN-015 Procedure for Research Sponsored by Non-DOE Entities
- GEN-025 PPPL Foreign Visits and Assignments Program
- ESH-001 Use of Safety, Accident Prevention, and Equipment Protection Tags
- ESH-002 Facility Safety Signs
- ESH-004 Job Hazard Analysis
- ESH-008 Access to Radiologically Controlled Areas (RCAs)
- ESH-013 Non-Emergency Environmental Release - Notification and Reporting
- ESH-014 NEPA Review System
- ESH-015 Hazard Assessment by Emergency Response Zone
- ESH-016 Control of Hazardous/Energy Sources-Safing/Lockout/Tagout
- EWM-001 Hazardous Waste Management
- EWM-004 Satellite Accumulation Areas
- EWM-005 Asbestos Management Services
- QA-002 PPPL Audit Program
- QA-003 Procurement Quality Assurance
- QA-004 PPPL Site Inspection Program
- QA-005 Control of Nonconformances

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 2 Continued...**  
**Clear Roles and Responsibilities**

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**PPPL Implementing Documents**

PROCEDURES CONTINUED...

QA-012	Corrective Action Request
QA-017	PPPL Tracking and Trending System
QA-019	Root Cause Analysis
QA-020	Identifying and Disposition of Suspect Parts
ENG-002	Control of Measuring Test Equipment and Calibration
ENG-005	General Plant Projects Administration
ENG-006	Review and Approval of Specifications & Statements of Work
ENG-007	Reliability, Availability & Maintainability (RAM) Modeling & Apportionment
ENG-008	Failure Modes and Effects Analysis
ENG-010	Control of Drawings, Software, and Firmware
ENG-011	Interlock Key Control
ENG-012	Identification & Control of Items
ENG-014	Hydrostatic and Pneumatic Testing
ENG-016	PPPL Preventive Maintenance Program
ENG-019	PPPL Engineering Standards
ENG-020	Project Management Plan
ENG-021	Hoisting and Rigging Program
ENG-022	Scheduled Site Power Outage Notification
ENG-024	Digging Permits
ENG-025	Fire Seals, Fire Dampers, and Fire Doors
ENG-026	Fire Detection and Suppression Systems
ENG-027	Fire Barrier Penetration Seal Installation and Repair
ENG-028	Core Boring, Cutting and Drilling
ENG-030	PPPL Technical Procedures for Experimental Facilities
ENG-032	Work Planning Procedure
ENG-033	Design Verification
PER-006	PPPL Guided Tour Program and Escort Responsibilities
TR-001	Laboratory Training Program
TR-006	Establishing Qualification and Certification Requirements
MC-004	Acquisition and Disposal of Excess Government Property
MC-005	Shipment of Equipment/Material to Off-Site Location

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 2 Continued...**  
**Clear Roles and Responsibilities**

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**PPPL Implementing Documents**

OTHER DOCUMENTS

Environment, Safety and Health Manual  
Environmental Monitoring Plan  
FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in  
    Environmental Management  
Stormwater Pollution Prevention Plan  
Environmental Protection Implementation Plan  
Nuclear Materials Control and Accountability Plan  
Radiological ALARA Plan  
PPPL Radiation Protection Plan  
Institutional Quality Assurance Plan  
PPPL Engineering Standards  
Security Plan  
Cyber Security Program Plan  
PPPL Emergency Preparedness Plan  
ES&H Procedures  
Project/Department Procedures  
Safety Assessment Documents (SADs)

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 3**  
**Competence Commensurate with Responsibilities**

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**PPPL Implementing Documents**

POLICIES

- P-008 Staff Training and Development
- P-019 Occupational Medicine Policy
- P-026 Assessment and Oversight
- P-028 Subcontractor Training Requirements
- P-029 PPPL Examination Program
- P-033 Unauthorized Persons in the Workplace
- P-036 Asbestos Management
- P-049 Authorization for Work on Electrical Systems
- P-051 Review and Approval of Policies, Procedures, Plans, and Manuals
- P-052 Special Processes
- P-062 Reduction of Ozone Depleting Substance Emissions
- P-071 Inspection and Acceptance Testing
- P-073 Blood Borne Pathogens
- P-077 Roles and Responsibilities for General Plant Projects
- P-083 Lessons Learned and Their Promulgation
- P-085 Environment Safety and Health Policy for Off-Site Work
- P-086 Calibration of Measuring and Test Equipment
- P-087 Roles & Responsibilities in PPPL Organizations

ORGANIZATION/MISSION STATEMENTS

- Technical Resources Committee Responsibilities
- O-001 Laboratory Mission
- O-003 ES&H and Infrastructure Support Department Charter
- O-004 Advanced Projects Department Charter
- O-005 Off-Site Research Department Mission Statement
- O-008 Engineering and Technical Infrastructure Department Organization and Mission
- O-009 Experiment Department Mission Statement
- O-010 Theory Department Charter
- O-012 External Affairs Department Charter
- O-014 Human Resources Charter
- O-015 Business Operations Department Charter
- O-016 Plasma Science & Technology Mission Statement
- O-021 ES&H Executive Board Charter
- O-022 Safety Review Committee Charter
- O-023 Environmental Review Committee Charter
- O-024 ALARA Review Committee Charter
- O-025 Electrical Safety Subcommittee Charter
- O-027 Line Management Safety Organization

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 3 Continued...**  
**Competence Commensurate with Responsibilities**

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**PPPL Implementing Documents**

PROCEDURES

- GEN-006 Occurrence Reporting and Processing of Operations Information
- GEN-008 Coordination of Visits and Assignments to PPPL and Site Access Requirements
- GEN-011 ES&H Deficiency Reporting
- ESH-004 Job Hazard Analysis
- ESH-008 Access to Radiologically Controlled Areas (RCAs)
- ESH-014 NEPA Review System
- ESH-016 Control of Hazardous/Energy Sources-Safing/Lockout/Tagout
- EWM-001 Hazardous Waste Management
- EWM-004 Satellite Accumulation Areas
- QA-019 Root Cause Analysis
- ENG-019 PPPL Engineering Standards
- ENG-021 Hoisting and Rigging Program
- ENG-033 Design Verification
- PER-006 PPPL Guided Tour Program and Escort Responsibilities
- TR-001 Laboratory Training Program
- TR-006 Establishing Qualification and Certification Requirements

OTHER DOCUMENTS

- Environment, Safety and Health Manual
- Environmental Monitoring Plan
- FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in Environmental Management
- Stormwater Pollution Prevention Plan
- Environmental Protection Implementation Plan
- Nuclear Materials Control and Accountability Plan
- Radiological ALARA Plan
- PPPL Radiation Protection Plan
- Institutional Quality Assurance Plan
- PPPL Engineering Standards
- Security Plan
- Cyber Security Program Plan
- PPPL Emergency Preparedness Plan
- ES&H Procedures
- Project/Department Procedures
- Safety Assessment Documents (SADs)

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 4**  
**Balanced Priorities**

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**PPPL Implementing Documents**

POLICY

- P-001 Graded Approach
- P-002 Environmental Protection
- P-003 Environment, Safety and Health Policy
- P-004 Quality Assurance
- P-006 Conduct of Operations
- P-007 Operational Problem Identification and Resolution
- P-008 Staff Training and Development
- P-009 Electrical Isolation During Emergencies
- P-010 Design Reviews
- P-012 Stop Work Authority
- P-013 Use of Procedures
- P-014 Radioactive and Hazardous Waste Minimization
- P-015 Records Management
- P-017 Working Alone
- P-019 Occupational Medicine Policy
- P-026 Assessment and Oversight
- P-027 ALARA
- P-028 Subcontractor Training Requirements
- P-036 Asbestos Management
- P-037 Software Quality Assurance
- P-038 Control of Hazardous Energy Sources
- P-039 Hazard Analysis and Controls
- P-041 Suspect Parts
- P-044 ES&H and Infrastructure Support Department External Audits and Appraisals
- P-045 Working on Rotating Equipment
- P-046 Cable Tagging and Removal
- P-048 Safety Analysis and Review System Program
- P-062 Reduction of Ozone Depleting Substance Emissions
- P-071 Inspection and Acceptance Testing
- P-072 Quality and Procurements
- P-075 Configuration Management
- P-077 Roles and Responsibilities for General Plant Projects
- P-078 External Correspondence Concurrence Signatures
- P-080 Variances to ES&H Regulations
- P-082 Affirmative Procurement
- P-083 Lessons Learned and Their Promulgation
- P-084 Management Safety Walkthroughs
- P-085 Environment Safety and Health Policy for Off-Site Work
- P-086 Calibration of Measuring and Test Equipment
- P-087 Roles & Responsibilities in PPPL Organizations
- P-089 Moratorium on the Release of Surplus and Scrap Materials

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 4 Continued...**  
**Balanced Priorities**

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**PPPL Implementing Documents**

ORGANIZATION/MISSION STATEMENTS

- Technical Resources Committee Responsibilities
- O-001 Laboratory Mission
- O-003 ES&H and Infrastructure Support Department Charter
- O-004 Advanced Projects Department Charter
- O-005 Off-Site Research Department Mission Statement
- O-008 Engineering and Technical Infrastructure Department Organization and Mission
- O-009 Experiment Department Mission Statement
- O-010 Theory Department Charter
- O-011 Security Integration Team Charter
- O-012 External Affairs Department Charter,
- O-014 Human Resources Charter
- O-015 Business Operations Department Charter
- O-016 Plasma Science & Technology Mission Statement
- O-021 ES&H Executive Board Charter
- O-022 Safety Review Committee Charter
- O-023 Environmental Review Committee Charter
- O-024 ALARA Review Committee Charter
- O-025 Electrical Safety Subcommittee Charter
- O-027 Line Management Safety Organization

PROCEDURES

- GEN-006 Occurrence Reporting and Processing of Operations Information
- GEN-007 PPPL Review and Implementation of Laws, Regulations, Standards , and DOE Directives
- GEN-009 GPP Prioritization
- GEN-011 ES&H Deficiency Reporting
- GEN-015 Procedure for Research Sponsored by Non-DOE Entities
- GEN-025 PPPL Foreign Visits and Assignments Program
- ESH-004 Job Hazard Analysis
- ESH-008 Access to Radiologically Controlled Areas (RCAs)
- ESH-014 NEPA Review System
- EWM-001 Hazardous Waste Management
- QA-002 PPPL Audit Program
- QA-004 PPPL Site Inspection Program
- QA-017 PPPL Tracking and Trending System
- ENG-007 Reliability, Availability & Maintainability (RAM) Modeling & Apportionment
- ENG-008 Failure Modes and Effects Analysis
- ENG-019 PPPL Engineering Standards
- ENG-020 Project Management Plan
- ENG-032 Work Planning Procedure

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 4 Continued...**  
**Balanced Priorities**

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**PPPL Implementing Documents**

OTHER DOCUMENTS

Environment, Safety and Health Manual  
Environmental Monitoring Plan  
FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in  
    Environmental Management  
Stormwater Pollution Prevention Plan  
Environmental Protection Implementation Plan  
Nuclear Materials Control and Accountability Plan  
Radiological ALARA Plan  
PPPL Radiation Protection Plan  
Institutional Quality Assurance Plan  
PPPL Engineering Standards  
Security Plan  
Cyber Security Program Plan  
PPPL Emergency Preparedness Plan  
ES&H Procedures  
Project/Department Procedures  
Safety Assessment Documents (SADs)  
5 yr. ES&H Management Plan  
10 yr. ERWM Plan

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 5**  
**Identification of Safety Standards and Requirements**

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**PPPL Implementing Documents**

POLICY

- P-001 Graded Approach
- P-002 Environmental Protection
- P-003 Environment, Safety and Health Policy
- P-004 Quality Assurance
- P-006 Conduct of Operations
- P-008 Staff Training and Development
- P-009 Electrical Isolation During Emergencies
- P-010 Design Reviews
- P-012 Stop Work Authority
- P-013 Use of Procedures
- P-014 Radioactive and Hazardous Waste Minimization
- P-017 Working Alone
- P-019 Occupational Medicine Policy
- P-020 Policy for Research Sponsored by Non-DOE Entities
- P-026 Assessment and Oversight
- P-027 ALARA
- P-028 Subcontractor Training Requirements
- P-029 PPPL Examination Program
- P-033 Unauthorized Persons in the Workplace
- P-036 Asbestos Management
- P-037 Software Quality Assurance
- P-038 Control of Hazardous Energy Sources
- P-039 Hazard Analysis and Controls
- P-041 Suspect Parts
- P-045 Working on Rotating Equipment
- P-046 Cable Tagging and Removal
- P-047 Employee Area Housekeeping
- P-048 Safety Analysis and Review System Program
- P-049 Authorization for Work on Electrical Systems
- P-052 Special Processes
- P-053 Eating, Drinking and Smoking in Radiologically Controlled Areas
- P-062 Reduction of Ozone Depleting Substance Emissions
- P-071 Inspection and Acceptance Testing
- P-072 Quality and Procurements
- P-073 Blood Borne Pathogens
- P-075 Configuration Management
- P-077 Roles and Responsibilities for General Plant Projects
- P-080 Variances to ES&H Regulations
- P-083 Lessons Learned and Their Promulgation
- P-084 Management Safety Walkthroughs
- P-085 Environment Safety and Health Policy for Off-Site Work
- P-086 Calibration of Measuring and Test Equipment
- P-087 Roles & Responsibilities in PPPL Organizations
- P-089 Moratorium on the Release of Surplus and Scrap Materials

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 5 Continued...**  
**Identification of Safety Standards and Requirements**

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**PPPL Implementing Documents**

ORGANIZATION/MISSION STATEMENTS

- Technical Resources Committee Responsibilities
- O-001 Laboratory Mission
- O-003 ES&H and Infrastructure Support Department Charter
- O-008 Engineering and Technical Infrastructure Department Organization and Mission
- O-011 Security Integration Team Charter
- O-021 ES&H Executive Board Charter
- O-022 Safety Review Committee Charter
- O-023 Environmental Review Committee Charter
- O-024 ALARA Review Committee Charter
- O-025 Electrical Safety Subcommittee Charter
- O-027 Line Management Safety Organization

PROCEDURES

- GEN-006 Occurrence Reporting and Processing of Operations Information
- GEN-007 PPPL Review and Implementation of Laws, Regulations, Standards, and DOE Directives
- GEN-011 ES&H Deficiency Reporting
- GEN-015 Procedure for Research Sponsored by Non-DOE Entities
- GEN-025 PPPL Foreign Visits and Assignments Program
- ESH-001 Use of Safety, Accident Prevention, and Equipment Protection Tags
- ESH-002 Facility Safety Signs
- ESH-004 Job Hazard Analysis
- ESH-008 Access to Radiologically Controlled Areas (RCAs)
- ESH-013 Non-Emergency Environmental Release - Notification and Reporting
- ESH-014 NEPA Review System
- ESH-015 Hazard Assessment by Emergency Response Zone
- ESH-016 Control of Hazardous/Energy Sources-Safing/Lockout/Tagout
- EWM-001 Hazardous Waste Management
- EWM-004 Satellite Accumulation Areas
- EWM-005 Asbestos Management Services
- QA-002 PPPL Audit Program
- QA-003 Procurement Quality Assurance
- QA-004 PPPL Site Inspection Program
- QA-005 Control of Nonconformances
- QA-012 Corrective Action Request
- QA-017 PPPL Tracking and Trending System
- QA-019 Root Cause Analysis
- QA-020 Identifying and Disposition of Suspect Parts
- ENG-002 Control of Measuring Test Equipment and Calibration
- ENG-005 General Plant Projects Administration
- ENG-006 Review and Approval of Specifications & Statements of Work
- ENG-007 Reliability, Availability & Maintainability (RAM) Modeling & Apportionment
- ENG-008 Failure Modes and Effects Analysis
- ENG-009 Interruptible Service Electric Load Reduction Procedure

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 5 Continued...**  
**Identification of Safety Standards and Requirements**

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**PPPL Implementing Documents**

PROCEDURES CONTINUED...

ENG-010    Control of Drawings, Software, and Firmware  
ENG-011    Interlock Key Control  
ENG-012    Identification & Control of Items  
ENG-014    Hydrostatic and Pneumatic Testing  
ENG-016    PPPL Preventive Maintenance Program  
ENG-019    PPPL Engineering Standards  
ENG-020    Project Management Plan  
ENG-021    Hoisting and Rigging Program  
ENG-024    Digging Permits  
ENG-025    Fire Seals, Fire Dampers, and Fire Doors  
ENG-026    Fire Detection and Suppression Systems  
ENG-027    Fire Barrier Penetration Seal Installation and Repair  
ENG-028    Core Boring, Cutting and Drilling  
ENG-030    PPPL Technical Procedures for Experimental Facilities  
ENG-032    Work Planning Procedure  
ENG-033    Design Verification  
MC-004    Acquisition and Disposal of Excess Government Property  
MC-005    Shipment of Equipment/Material to Off-Site Location

OTHER DOCUMENTS

Environment, Safety and Health Manual  
Environmental Monitoring Plan  
FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in  
    Environmental Management  
Stormwater Pollution Prevention Plan  
Environmental Protection Implementation Plan  
Nuclear Materials Control and Accountability Plan  
Radiological ALARA Plan  
PPPL Radiation Protection Plan  
Institutional Quality Assurance Plan  
PPPL Engineering Standards  
Security Plan  
Cyber Security Program Plan  
PPPL Emergency Preparedness Plan  
ES&H Procedures  
Project/Department Procedures  
Safety Assessment Documents (SADs)

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 6**  
**Hazards Control Tailored to Work Being Performed**

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**PPPL Implementing Documents**

POLICY

- P-001 Graded Approach
- P-002 Environmental Protection
- P-003 Environment, Safety and Health Policy
- P-004 Quality Assurance
- P-006 Conduct of Operations
- P-008 Staff Training and Development
- P-009 Electrical Isolation During Emergencies
- P-010 Design Reviews
- P-012 Stop Work Authority
- P-013 Use of Procedures
- P-014 Radioactive and Hazardous Waste Minimization
- P-017 Working Alone
- P-026 Assessment and Oversight
- P-027 ALARA
- P-028 Subcontractor Training Requirements
- P-029 PPPL Examination Program
- P-036 Asbestos Management
- P-037 Software Quality Assurance
- P-038 Control of Hazardous Energy Sources
- P-039 Hazard Analysis and Controls
- P-045 Working on Rotating Equipment
- P-046 Cable Tagging and Removal
- P-047 Employee Area Housekeeping
- P-048 Safety Analysis and Review System Program
- P-049 Authorization for Work on Electrical Systems
- P-052 Special Processes
- P-053 Eating, Drinking and Smoking in Radiologically Controlled Areas
- P-062 Reduction of Ozone Depleting Substance Emissions
- P-071 Inspection and Acceptance Testing
- P-072 Quality and Procurements
- P-075 Configuration Management
- P-077 Roles and Responsibilities for General Plant Projects
- P-080 Variances to ES&H Regulations
- P-082 Affirmative Procurement
- P-083 Lessons Learned and Their Promulgation
- P-084 Management Safety Walkthroughs
- P-085 Environment Safety and Health Policy for Off-Site Work
- P-086 Calibration of Measuring and Test Equipment
- P-087 Roles & Responsibilities in PPPL Organizations
- P-089 Moratorium on the Release of Surplus and Scrap Materials

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 6 Continued...**  
**Hazards Control Tailored to Work Being Performed**

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**PPPL Implementing Documents**

ORGANIZATION/MISSION STATEMENTS

- Technical Resources Committee Responsibilities
- O-001 Laboratory Mission
- O-003 ES&H and Infrastructure Support Department Charter
- O-008 Engineering and Technical Infrastructure Department Organization and Mission
- O-011 Security Integration Team Charter
- O-021 ES&H Executive Board Charter
- O-022 Safety Review Committee Charter
- O-023 Environmental Review Committee Charter
- O-024 ALARA Review Committee Charter
- O-025 Electrical Safety Subcommittee Charter
- O-027 Line Management Safety Organization

PROCEDURES

- GEN-011 ES&H Deficiency Reporting
- GEN-015 Procedure for Research Sponsored by Non-DOE Entities
- GEN-025 PPPL Foreign Visits and Assignments Program
- ESH-001 Use of Safety, Accident Prevention, and Equipment Protection Tags
- ESH-002 Facility Safety Signs
- ESH-004 Job Hazard Analysis
- ESH-008 Access to Radiologically Controlled Areas (RCAs)
- ESH-013 Non-Emergency Environmental Release - Notification and Reporting
- ESH-014 NEPA Review System
- ESH-015 Hazard Assessment by Emergency Response Zone
- ESH-016 Control of Hazardous/Energy Sources-Safing/Lockout/Tagout
- EWM-001 Hazardous Waste Management
- EWM-004 Satellite Accumulation Areas
- EWM-005 Asbestos Management Services
- QA-002 PPPL Audit Program
- QA-004 PPPL Site Inspection Program
- QA-005 Control of Nonconformances
- QA-012 Corrective Action Request
- QA-017 PPPL Tracking and Trending System
- QA-019 Root Cause Analysis
- QA-020 Identifying and Disposition of Suspect Parts
- ENG-002 Control of Measuring Test Equipment and Calibration
- ENG-005 General Plant Projects Administration
- ENG-006 Review and Approval of Specifications & Statements of Work
- ENG-007 Reliability, Availability & Maintainability (RAM) Modeling & Apportionment
- ENG-008 Failure Modes and Effects Analysis
- ENG-010 Control of Drawings, Software, and Firmware
- ENG-011 Interlock Key Control
- ENG-012 Identification & Control of Items
- ENG-014 Hydrostatic and Pneumatic Testing
- ENG-016 PPPL Preventive Maintenance Program
- ENG-019 PPPL Engineering Standards
- ENG-021 Hoisting and Rigging Program

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 6 Continued...**  
**Hazards Control Tailored to Work Being Performed**

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**PPPL Implementing Documents**

PROCEDURES CONTINUED...

- ENG-022    Scheduled Site Power Outage Notification
- ENG-024    Digging Permits
- ENG-025    Fire Seals, Fire Dampers, and Fire Doors
- ENG-026    Fire Detection and Suppression Systems
- ENG-027    Fire Barrier Penetration Seal Installation and Repair
- ENG-028    Core Boring, Cutting and Drilling
- ENG-030    PPPL Technical Procedures for Experimental Facilities
- ENG-032    Work Planning Procedure
- ENG-033    Design Verification
- MC-004    Acquisition and Disposal of Excess Government Property
- MC-005    Shipment of Equipment/Material to Off-Site Location

OTHER DOCUMENTS

- Environment, Safety and Health Manual
- Environmental Monitoring Plan
- FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in Environmental Management
- Stormwater Pollution Prevention Plan
- Environmental Protection Implementation Plan
- Nuclear Materials Control and Accountability Plan
- Radiological ALARA Plan
- PPPL Radiation Protection Plan
- Institutional Quality Assurance Plan
- PPPL Engineering Standards
- Security Plan
- Cyber Security Program Plan
- PPPL Emergency Preparedness Plan
- ES&H Procedures
- Project/Department Procedures
- Safety Assessment Documents (SADs)

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 7**  
**Operations Authorization**

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**PPPL Implementing Documents**

POLICY

- P-001 Graded Approach
- P-002 Environmental Protection
- P-003 Environment, Safety and Health Policy
- P-004 Quality Assurance
- P-006 Conduct of Operations
- P-008 Staff Training and Development
- P-009 Electrical Isolation During Emergencies
- P-012 Stop Work Authority
- P-013 Use of Procedures
- P-014 Radioactive and Hazardous Waste Minimization
- P-017 Working Alone
- P-020 Policy for Research Sponsored by Non-DOE Entities
- P-026 Assessment and Oversight
- P-027 ALARA
- P-028 Subcontractor Training Requirements
- P-029 PPPL Examination Program
- P-036 Asbestos Management
- P-037 Software Quality Assurance
- P-038 Control of Hazardous Energy Sources
- P-039 Hazard Analysis and Controls
- P-041 Suspect Parts
- P-045 Working on Rotating Equipment
- P-046 Cable Tagging and Removal
- P-047 Employee Area Housekeeping
- P-048 Safety Analysis and Review System Program
- P-049 Authorization for Work on Electrical Systems
- P-052 Special Processes
- P-053 Eating, Drinking and Smoking in Radiologically Controlled Areas
- P-062 Reduction of Ozone Depleting Substance Emissions
- P-071 Inspection and Acceptance Testing
- P-072 Quality and Procurements
- P-075 Configuration Management
- P-077 Roles and Responsibilities for General Plant Projects
- P-080 Variances to ES&H Regulations
- P-083 Lessons Learned and Their Promulgation
- P-084 Management Safety Walkthroughs
- P-085 Environment Safety and Health Policy for Off-Site Work
- P-087 Roles & Responsibilities in PPPL Organizations
- P-089 Moratorium on the Release of Surplus and Scrap Materials

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 7 Continued...**  
**Operations Authorization**

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**PPPL Implementing Documents**

ORGANIZATION/MISSION STATEMENTS

- Technical Resources Committee Responsibilities
- O-001 Laboratory Mission
- O-003 ES&H and Infrastructure Support Department Charter
- O-008 Engineering and Technical Infrastructure Department Organization and Mission
- O-011 Security Integration Team Charter
- O-021 ES&H Executive Board Charter
- O-022 Safety Review Committee Charter
- O-023 Environmental Review Committee Charter
- O-024 ALARA Review Committee Charter
- O-027 Line Management Safety Organization

PROCEDURES

- GEN-001 Policy, Procedure and Mission Statement, Development, Review and Approval
- GEN-007 PPPL Review and Implementation of Laws, Regulations, Standards, and DOE Directives
- GEN-009 GPP Prioritization
- GEN-011 ES&H Deficiency Reporting
- GEN-004 Price Anderson Amendments Act Non-Compliance Determination and Reporting
- GEN-015 Procedure for Research Sponsored by Non-DOE Entities
- ESH-004 Job Hazard Analysis
- ESH-008 Access to Radiologically Controlled Areas (RCAs)
- ESH-014 NEPA Review System
- ESH-015 Hazard Assessment by Emergency Response Zone
- QA-002 PPPL Audit Program
- QA-004 PPPL Site Inspection Program
- QA-005 Control of Nonconformances
- QA-012 Corrective Action Request
- QA-017 PPPL Tracking and Trending System
- QA-019 Root Cause Analysis
- ENG-002 Control of Measuring Test Equipment and Calibration
- ENG-008 Failure Modes and Effects Analysis
- ENG-009 Interruptible Service Electric Load Reduction Procedure
- ENG-010 Control of Drawings, Software, and Firmware
- ENG-014 Hydrostatic and Pneumatic Testing
- ENG-016 PPPL Preventive Maintenance Program
- ENG-022 Scheduled Site Power Outage Notification
- ENG-025 Fire Seals, Fire Dampers, and Fire Doors
- ENG-026 Fire Detection and Suppression Systems
- ENG-027 Fire Barrier Penetration Seal Installation and Repair
- ENG-028 Core Boring, Cutting and Drilling
- ENG-030 PPPL Technical Procedures for Experimental Facilities
- ENG-032 Work Planning Procedure

**PPPL ISM Related Procedures, Policies, Plans, Programs Listing**  
(ISM Principles vs. Established PPPL Systems)

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**Guiding Principle 7 Continued...**  
**Operations Authorization**

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**PPPL Implementing Documents**

OTHER DOCUMENTS

Environment, Safety and Health Manual  
Environmental Monitoring Plan  
FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in  
    Environmental Management  
Stormwater Pollution Prevention Plan  
Environmental Protection Implementation Plan  
Nuclear Materials Control and Accountability Plan  
Radiological ALARA Plan  
PPPL Radiation Protection Plan  
Institutional Quality Assurance Plan  
PPPL Engineering Standards  
Security Plan  
Cyber Security Program Plan  
PPPL Emergency Preparedness Plan  
ES&H Procedures  
Project/Department Procedures  
Safety Assessment Documents (SADs)

**PPPL ISM Functions Matrix**  
 (The primary PPPL implementing "Mechanisms" for the five ISM Functions)

ISM Function #1	PPPL Implementing Mechanisms
<p><b>Define the scope of work</b></p> <ul style="list-style-type: none"> <li>• translate scope into work</li> <li>• set expectations</li> <li>• prioritize</li> </ul>	<p>ESH-004 Job Hazard Analysis                      ESH-014 NEPA Review System                      GEN-009 General Plant Project Prioritization                      GEN-015 Procedure for Research Sponsored by Non-DOE Entities                      ENG-006 Review and Approval of Specifications &amp; Statements of Work                      ENG-010 Control of Drawings, Software, and Firmware                      ENG-030 PPPL Technical Procedures for Experimental Facilities                      ENG-032 Work Planning Procedure                      ENG-033 Design Verification</p> <p>Field Work Proposal process                      Project and Department Job Cost Estimating processes                      Work Authorization Forms                      Facility Work Order system                      Project Design Change Authorization systems                      Project and Facility Configuration Management systems                      Permit processes                      Operational Readiness Preparations</p>

ISM Function #2	PPPL Implementing Mechanisms
<p><b>Analyze the hazards</b></p> <ul style="list-style-type: none"> <li>• ID and analyze hazards</li> <li>• categorize hazards</li> </ul>	<p><u>Policies</u>                      P-001 Graded Approach                      P-002 Environmental Protection                      P-003 Environment, Safety, and Health Policy                      P-010 Design Reviews                      P-014 Radioactive and Hazardous Waste Minimization                      P-017 Working Alone                      P-020 Policy for Research Sponsored by Non-DOE Entities                      P-036 Asbestos Management                      P-037 Software Quality Assurance                      P-038 Control of Hazardous Energy Sources                      P-039 Hazard Analysis and Controls                      P-041 Suspect Parts                      P-048 Safety Analysis and Review System Program                      P-062 Reduction of Ozone Depleting Substance Emissions                      P-073 Blood Borne Pathogens                      P-080 Variances to ES&amp;H Regulations                      P-082 Affirmative Procurement                      P-084 Management Safety Walkthroughs                      P-085 Environment Safety and Health Policy for Off-Site Work                      P-087 Roles &amp; Responsibilities in PPPL Organizations                      P-089 Moratorium on the Release of Surplus and Scrap Materials</p>

**PPPL ISM Functions Matrix**  
 (The primary PPPL implementing "Mechanisms" for the five ISM Functions)

<b>ISM Function #2 Continued...</b>	<b>PPPL Implementing Mechanisms</b>
<p><b>Analyze the hazards</b></p> <ul style="list-style-type: none"> <li>• ID and analyze hazards</li> <li>• categorize hazards</li> </ul>	<p><u>Organization/Mission Statements</u>                      O-003 ES&amp;H and Infrastructure Support Department Charter                      O-011 Security Integration Team Charter                      O-021 ES&amp;H Executive Board                      O-022 Safety Review Committee Charter                      O-023 Environmental Review Committee Charter                      O-024 ALARA Review Committee Charter                      O-025 Electrical Safety Subcommittee Charter                      O-027 Line Management Safety Organization</p> <p><u>Lab-wide Procedures</u>                      ESH-004 Job Hazard Analysis                      ESH-008 Access to Radiologically Controlled Areas (RCAs)                      ESH-014 NEPA Review System                      ESH-015 Hazard Assessment by Emergency Response Zone                      GEN-015 Procedure for Research Sponsored by Non-DOE Entities                      GEN-025 PPPL Foreign Visits and Assignments Program                      ENG-007 Reliability, Availability &amp; Maintainability Modeling &amp; Apportionment                      ENG-008 Failure Modes and Effects Analysis                      ENG-032 Work Planning Procedure                      ENG-033 Design Verification                      QA-020 Identifying and Disposition of Suspect Parts</p> <p><u>Other Documents</u>                      Environment, Safety and Health Manual                      Environment, Safety, and Health Plan                      FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in Environmental Management                      Stormwater Pollution Prevention Plan                      Environmental Protection Implementation Plan                      Nuclear Materials Control and Accountability Plan                      Radiological ALARA Plan                      Security Plan                      Cyber Security Program Plan                      PPPL Emergency Preparedness Plan                      Safety Assessment Documents (SADs)</p>

**PPPL ISM Functions Matrix**  
 (The primary PPPL implementing "Mechanisms" for the five ISM Functions)

<b>ISM Function #3</b>	<b>PPPL Implementing Mechanisms</b>
<p><b>Develop and implement hazards controls.</b></p> <ul style="list-style-type: none"> <li>• ID standards and requirements</li> <li>• ID and implement controls to prevent hazards and control hazards</li> </ul>	<p><u>Policies</u></p> <p>P-008 Staff Training and Development                      P-010 Design Reviews                      P-012 Stop Work Authority                      P-014 Radioactive and Hazardous Waste Minimization                      P-017 Working Alone                      P-028 Subcontractor Training Requirements                      P-036 Asbestos Management                      P-037 Software Quality Assurance                      P-038 Control of Hazardous Energy Sources                      P-039 Hazard Analysis and Controls                      P-045 Working on Rotating Equipment                      P-046 Cable Tagging and Removal                      P-049 Authorization for Work on Electrical Systems                      P-073 Blood Borne Pathogens                      P-084 Management Safety Walkthroughs                      P-085 Environment Safety and Health Policy for Off-Site Work                      P-086 Calibration of Measuring and Test Equipment                      P-087 Roles &amp; Responsibilities in PPPL Organizations                      P-089 Moratorium on the Release of Surplus and Scrap Materials</p> <p><u>Organization/Mission Statements</u></p> <p>O-003 ES&amp;H and Infrastructure Support Department Charter                      O-008 Engineering and Technical Infrastructure Dept. Organization and Mission                      O-011 Security Integration Team Charter                      O-021 ES&amp;H Executive Board                      O-022 Safety Review Committee Charter                      O-023 Environmental Review Committee Charter                      O-024 ALARA Review Committee Charter                      O-025 Electrical Safety Subcommittee Charter                      O-027 Line Management Safety Organization</p> <p><u>Lab-wide Procedures</u></p> <p>ENG-010 Control of Drawings, Software, and Firmware                      ENG-011 Interlock Key Control                      ENG-021 Hoisting and Rigging Program                      ENG-024 Digging Permits                      ENG-025 Fire Seals, Fire Dampers, and Fire Doors                      ENG-027 Fire Barrier Penetration Seal Installation and Repair                      ENG-028 Core Boring, Cutting and Drilling                      ENG-030 PPPL Technical Procedures for Experimental Facilities                      ENG-032 Work Planning Procedure                      ENG-033 Design Verification                      GEN-015 Procedure for Research Sponsored by Non-DOE Entities                      GEN-025 PPPL Foreign Visits and Assignments Program                      ESH-001 Use of Safety, Accident Prevention, and Equipment Protection Tags                      ESH-004 Job Hazard Analysis                      ESH-008 Access to Radiologically Controlled Areas (RCAs)                      ESH-014 NEPA Review System                      ESH-016 Control of Hazardous/Energy Sources-Safing/Lockout/Tagout                      EWM-001 Hazardous Waste Management                      EWM-004 Satellite Accumulation Areas                      EWM-005 Asbestos Management Services                      QA-020 Identifying and Disposition of Suspect Parts</p>

**PPPL ISM Functions Matrix**  
 (The primary PPPL implementing "Mechanisms" for the five ISM Functions)

<b>ISM Function #3 Continued...</b>	<b>PPPL Implementing Mechanisms</b>
<p><b>Develop and implement hazards controls.</b></p> <ul style="list-style-type: none"> <li>• ID standards and requirements</li> <li>• ID and implement controls to prevent hazards and control hazards</li> </ul>	<p><u>Other Documents</u>                      Environment, Safety and Health Manual                      Environment, Safety, and Health Plan                      FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in Environmental Management                      Stormwater Pollution Prevention Plan                      Environmental Protection Implementation Plan                      Nuclear Materials Control and Accountability Plan                      Radiological ALARA Plan                      Security Plan                      Cyber Security Program Plan                      PPPL Emergency Preparedness Plan                      Safety Assessment Documents (SADs)</p>

**PPPL ISM Functions Matrix**  
 (The primary PPPL implementing "Mechanisms" for the five ISM Functions)

<b>ISM Function #4</b>	<b>PPPL Implementing Mechanisms</b>
<p><b>Perform work within controls.</b></p> <ul style="list-style-type: none"> <li>• Confirm Operational Readiness (authorize)</li> <li>• Perform the work Safely</li> </ul>	<p><u>Policies</u>                      P-012 Stop Work Authority                      P-017 Working Alone                      P-084 Management Safety Walkthroughs                      P-085 Environment Safety and Health Policy for Off-Site Work                      P-087 Roles &amp; Responsibilities in PPPL Organizations</p> <p><u>Organization/Mission Statements</u>                      O-003 ES&amp;H and Infrastructure Support Department Charter                      O-008 Engineering and Technical Infrastructure Dept. Organization and Mission</p> <p><u>Lab-wide Procedures</u>                      ENG-010 Control of Drawings, Software, and Firmware                      ENG-011 Interlock Key Control                      ENG-014 Hydrostatic and Pneumatic Testing                      ENG-021 Hoisting and Rigging Program                      ENG-024 Digging Permits                      ENG-025 Fire Seals, Fire Dampers, and Fire Doors                      ENG-032 Work Planning Procedure                      EWM-005 Asbestos Management Services                      ESH-001 Use of Safety, Accident Prevention, and Equipment Protection Tags                      ESH-004 Job Hazard Analysis                      ESH-008 Access to Radiologically Controlled Areas (RCAs)                      ESH-013 Non-Emergency Environmental Release - Notification and Reporting                      ESH-016 Control of Hazardous/Energy Sources-Safing/Lockout/Tagout Penetration Permit system                      OP-AD-77 Operations Parameter Requirements</p> <p><u>Other Documents</u>                      Environment, Safety and Health Manual                      Environment, Safety, and Health Plan                      FY01 Plan to Attain Goals of EO 13148 Greening the Government Through Leadership in Environmental Management - Revision 3/12/01                      Stormwater Pollution Prevention Plan                      Environmental Protection Implementation Plan                      Nuclear Materials Control and Accountability Plan                      Radiological ALARA Plan                      Security Plan                      Cyber Security Program Plan                      PPPL Emergency Preparedness Plan                      Safety Assessment Documents (SADs)</p>

**PPPL ISM Functions Matrix**  
 (The primary PPPL implementing "Mechanisms" for the five ISM Functions)

ISM Function #5	PPPL Implementing Mechanisms
<p><b>Provide feedback and continuous improvement.</b></p> <p>Ensure Performance</p> <ul style="list-style-type: none"> <li>• Seek and collect feedback</li> <li>• ID opportunities for performance improvement</li> <li>• Implement improvements</li> <li>• Reinforce good practices</li> <li>• Hold employees accountable for performance</li> </ul>	<p><u>Policy</u></p> <p>P-026 Assessment and Oversight</p> <p>P-083 Lessons Learned and Their Promulgation</p> <p>P-084 Management Safety Walkthroughs</p> <p>P-087 Roles &amp; Responsibilities in PPPL Organizations</p> <p><u>Organization/Mission Statements</u></p> <p>O-003 ES&amp;H and Infrastructure Support Department Charter</p> <p><u>Lab-wide Procedures</u></p> <p>GEN-001 Policy, Procedure, and Mission Statement Development, Review, and Approval</p> <p>GEN-006 Occurrence Reporting and Processing of Operations Information</p> <p>GEN-004 Price Anderson Amendments Act Non-Compliance Determination and Reporting</p> <p>GEN-011 ES&amp;H Deficiency Reporting</p> <p>ESH-004 Job Hazard Analysis</p> <p>QA-002 PPPL Audit Program</p> <p>QA-017 PPPL Tracking and Trending System</p> <p>QA-019 Root Cause Analysis</p> <p>QA-020 Identifying and Disposition of Suspect Parts</p> <p><u>OTHER DOCUMENTS</u></p> <p>Contract Performance Measures</p> <p>Performance Metrics</p> <p>PPPL/DOE Unified Safety Review Program</p> <p>PPPL Personnel Practices Manual</p> <p>Nuclear Materials Control and Accountability Plan</p> <p>Security Plan</p> <p>Cyber Security Program Plan</p>

DOE Secretary of Energy Policy Statement on Environment, Safety and Health

April 14, 1998

MEMORANDUM TO ALL DEPARTMENT AND CONTRACT EMPLOYEES

SUBJECT:            SECRETARIAL POLICY STATEMENT  
                         ENVIRONMENT, SAFETY AND HEALTH

It has been and will remain our policy that the safety of our workers, respect for the environment, and the public health are paramount in all that we do. To meet our strategic goals in national security, energy security, environmental quality, and science leadership, we must integrate safety into our work. That policy has already been incorporated into our Strategic Plan. Now is the time to achieve measurable and sustained results.

Overall Policy

We expect outstanding environment, safety, and health performance as a matter of course in the Department of Energy. At stake are nothing less than the lives and livelihood of our workers and neighbors and a healthy environment to leave to our children. We must expect and demand from ourselves as both federal employees and contractors only the best in terms of environment, safety, and health performance.

It is our firm belief that this will be achieved by implementing the principles of Integrated Safety Management. All managers and workers must accept as their responsibility a concerted and sustained effort to achieve Integrated Safety Management at the Department of Energy.

The fundamental premise of Integrated Safety Management is that all accidents are preventable through close attention to work design and hazard control, and with substantial worker involvement in teams that plan work and select appropriate safety standards. Experience has shown that an investment in prevention brings not only a healthier workplace and a cleaner environment, but notable cost-savings as problems are addressed before they become costly accidents or injuries.

Management must also be committed to a work environment that allows free and open expression of safety concerns, and where workers fear no reprisals or retaliation. Workers are our most important resource for preventing and reporting hazards and potentially unsafe practices.

In addition, we are establishing a goal of 'zero tolerance' for serious accidents that result in life-threatening injuries or major environmental contamination. Should such an event occur, the appropriate Principal Secretarial Officer will meet promptly and personally with us to thoroughly review causes of the event, corrective action plans and the effectiveness of Integrated Safety Management at the site. Appropriate Department of Energy Field and contractor managers will also be asked to attend and participate.

## DOE Secretary of Energy Policy Statement on Environment, Safety and Health

### Policy Implementation

This initiative will not end next year or the year after, but will be captured in the way work is done at the Department of Energy. To help assure that the Department continues to move forward to implement integrated safety management, we are taking the following actions:

**Safety Management Leadership Forum.** We will convene a Safety Management Leadership Forum with senior Department of Energy managers where we will examine and address the major environment, safety and health vulnerabilities at Department sites and discuss the status of Integrated Safety Management implementation. The Forum will be a working meeting and will require active participation from all Field Managers, Principal Secretarial Officers, and appropriate contractor executives.

The emphasis of the Forum will be on safety management within DOE. Issues will include:

Actions to address major environment, safety and health vulnerabilities identified in previous assessments, including Vulnerability Assessments, Oversight Safety Management Evaluations, and accident investigations;

Budget allocations and how they are aligned with environment, safety and health concerns;

What systems are in place to ensure that contractor and subcontractor employees are qualified for the work they perform, have the tools necessary to conduct work safely, and are accountable for environment, safety and health performance; and

What systems are in place to ensure that employees and managers can without hesitation report and address safety hazards, and that issues are promptly and objectively addressed.

The Forum will be designed to ensure that outcomes are effectively communicated to appropriate levels of each organization. We will also seek the participation of a wide range of safety professionals from both within and outside of the Department. Each day will include a plenary session chaired by the Secretary, the Deputy Secretary, or the Under Secretary. Additional Forums will be scheduled as needed to ensure continued success of Integrated Safety Management across the Department of Energy.

DOE Secretary of Energy Policy Statement on Environment, Safety and Health

Accountability in Management Contracts. To markedly improve safety at Department of Energy, we need to enhance our contract reform efforts with both for-profit and not-for-profit contractors. Contract reform has already made a difference in terms of enhancing competition and lowering costs. To achieve the same progress in safety, we have asked the Director of the Office of Procurement and the Acting Assistant Secretary for Environment, Safety and Health, in consultation with the appropriate Program Secretarial Officer, to:

Ensure that our contracts make clear to our contractors that we expect excellent safety performance as a matter of course, both for their employees as well as subcontract employees, consistent with the principles of Integrated Safety Management;

Require an effective Integrated Safety Management program as a fundamental requirement of contract performance; and

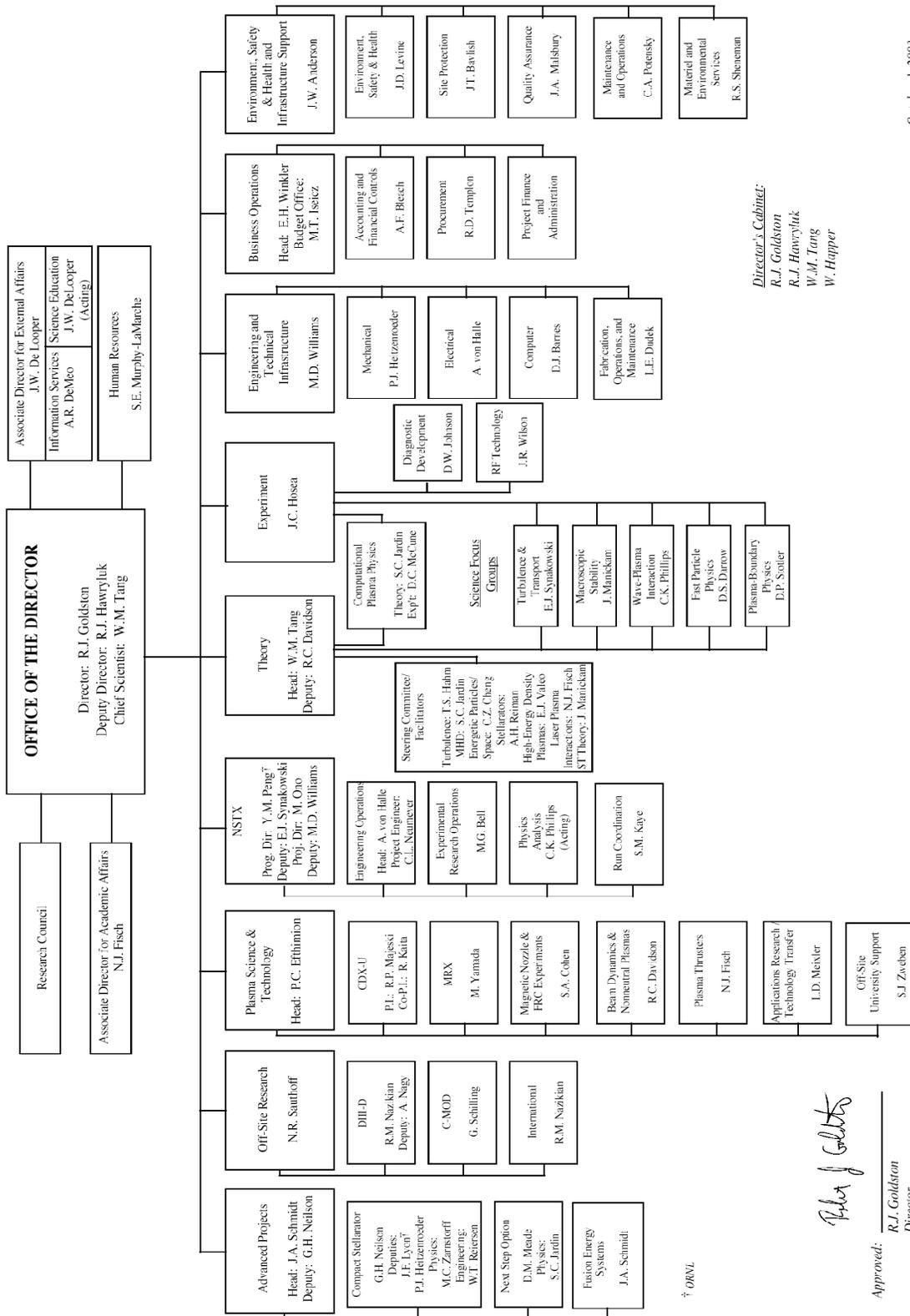
Ensure that the Department of Energy has the ability to put the contractor's entire performance-based fee at risk where it is warranted by poor safety performance, as defined by specified criteria defined by the Department with the contractor.

We know that you all share this commitment to safety in the Department and look forward to our continued progress.

Federico Peña Secretary	Elizabeth A. Moler Deputy Secretary	Ernest J. Moniz Under Secretary
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PPPL Organization Chart

PRINCETON PLASMA PHYSICS LABORATORY



October 1, 2003