

ENVIRONMENTAL ACQUISITION INITIATIVE

PURPOSE: Integrate environmental concerns into the acquisition process to minimize total cost of ownership and impacts to the environment.

FOCUS AREAS:

- Consider environmental quality early in the system engineering process (SEP).
- Streamline and focus policy and oversight.
- Enhance transfer of knowledge between material and combat developers.
- Evaluate systems engineering-based environmental quality costs.
- Develop and integrate environmental quality into acquisition.

PROGRAM MANAGER (PM) SUPPORT

The U.S. Army Environmental Center (USAEC) Acquisition Support Team (AST) offers PMs a variety of environmental support opportunities, including:

- An experienced staff of knowledgeable environmental professionals
- Guidance documents that can assist PMs in complying with DoD Regulation 5000.2-R.

ENVIRONMENTAL QUALITY REQUIREMENTS

DoD DIRECTIVE 5000.1 provides a flexible framework of three decision support systems for managing acquisition. These systems form the framework within which environmental quality considerations need to be inserted. The systems include the following:

- Planning, programming, budgeting and execution system
- Requirements generation system
- Acquisition management system.

DoD REGULATION 5000.2-R requires all weapon system programs, regardless of acquisition category, to comply

with the following six major Environmental, Safety, & Occupational Health (ESOH) requirements:

1. **ESOH COMPLIANCE** - Include a Programmatic ESOH Evaluation (PESHE) in this acquisition strategy.
2. **NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)** - Complete any analysis required under NEPA or executive orders.
3. **SAFETY AND HEALTH** - Identify and evaluate all system safety and health hazards, define risk levels, and establish a program that manages the probability and severity of all hazards associated with development, use and disposal of the system.
4. **HAZARDOUS MATERIALS MANAGEMENT** - Establish a hazardous materials management program; regularly review, identify, and integrate relevant environmental regulations into program execution while evaluating their impact to program cost, schedule, and performance.
5. **POLLUTION PREVENTION** - Establish a pollution prevention program to eliminate or minimize environmental impacts.
6. **EXPLOSIVES SAFETY** - Establish an explosives safety program that ensures that munitions, explosives, and energetics are properly hazard classified, safely developed, manufactured, tested, transported, handled, stored, maintained, demilitarized, and disposed.

GUIDANCE DOCUMENTS

The following guidance documents are available from USAEC:

- *Environmental Quality Life-Cycle Cost Estimating (EQLCCE) Handbook*
- *PESHE Guide*
- *NEPA Manual for Materiel Acquisition*

EQLCCE HANDBOOK

This handbook is a "how-to" guide that covers the planning for, and the preparation of, EQLCCE for weapon systems. The term "Environmental Quality" refers to maintaining the quality of the environment as opposed to the environmental effects on weapons design (such as climatic environments or high level electromagnetic pulse environments).

The USAEC AST is working with the U.S. Army Cost & Economic Analysis Center (CEAC) and various PMs to develop and verify environmental life-cycle costs for Army weapon systems. The team has developed a systematic approach, or methodology, to calculate these costs. The information is compiled in the *EQLCCE Handbook*, which provides guidance for applying the methodology and conducting an EQLCCE for weapon systems. The handbook also serves as a guide for PMs to estimate their program's environmental life-cycle costs.

The USAEC has completed EQLCCEs for the CH-47F Chinook, the RAH-66 Comanche, the AH-64D Apache helicopter programs and the Bradley M2A3 Infantry Fighting Vehicle.

PESHE GUIDE

PURPOSE: to provide PMs with a means of analyzing the six specific ESOH requirements as outlined in the regulation:

- ESOH Compliance
- NEPA
- Safety and Health
- Hazardous Materials Management
- Pollution Prevention
- Explosives Safety.

BENEFIT

The development of a PESHE helps ensure those actions that fulfill the ESOH requirements of DoD

Regulation 5000.2-R are identified and addressed.

The *PESHE Guide* will help the PM:

- Meet these requirements by providing an approach for developing a comprehensive PESHE
- Ensure that potential ESOH program "showstoppers" are identified and resolved early in the acquisition process
- Document the program's ESOH status
- Establish a process for monitoring changing compliance requirements
- Integrate ESOH requirements into the program's acquisition strategy
- Establish a plan to meet future ESOH requirements.

NEPA MANUAL FOR MATERIEL ACQUISITION

PURPOSE: To provide advisory information for integrating the requirements of NEPA and Army Regulation (AR) 200-2, Environmental Analysis of Army Actions, into the materiel acquisition process.

BENEFIT

This manual will simplify the NEPA process so that PMs understand when to use a Categorical Exclusion or Record of Environmental Consideration, an Environmental Assessment or an Environmental Impact Statement, and to feel comfortable with each approach. Application of the information in this manual will help to ensure the integration of environmental considerations into the decision-making process. It will also encourage and facilitate public involvement in decisions that directly affect the quality of the human environment.

A copy of the *NEPA Manual* may be obtained from the following Web site:

<http://aec.army.mil/usaec/nepa/index.html>



For More Information

Visit the USAEC Web site:
<http://aec.army.mil>

Write to USAEC:

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*Working to Support
Environmental Quality in
Weapon System Acquisition!*



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