

SECRETARY OF DEFENSE ENVIRONMENTAL AWARDS

FISCAL YEAR 2011 GUIDANCE

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About the Awards

Each year the Secretary of Defense honors installations, teams, and individuals for outstanding work in DoD environmental programs. Environmental awards are presented within six categories on a two-year cycle for:

- Natural Resources Conservation
- Cultural Resources Management
- Environmental Quality
- Sustainability
- Environmental Restoration
- Environmental Excellence in Weapon System Acquisition

Beginning with the Fiscal Year (FY) 2009 awards program, a two-year schedule was established as follows:

Odd Fiscal Years (i.e. 2009)	Even Fiscal Years (i.e. 2010)
<u>Installation</u>	<u>Installation</u>
<ul style="list-style-type: none"> • Natural Resources Conservation, Small 	<ul style="list-style-type: none"> • Natural Resources Conservation, Large
<ul style="list-style-type: none"> • Cultural Resources Management 	<ul style="list-style-type: none"> • Cultural Resources Management
<ul style="list-style-type: none"> • Environmental Quality, Non-industrial 	<ul style="list-style-type: none"> • Environmental Quality, Industrial
<ul style="list-style-type: none"> • Sustainability, Industrial 	<ul style="list-style-type: none"> • Environmental Quality, Overseas
<ul style="list-style-type: none"> • Environmental Restoration 	<ul style="list-style-type: none"> • Sustainability, Non-industrial
	<ul style="list-style-type: none"> • Environmental Restoration
<u>Individual/Team</u>	
<ul style="list-style-type: none"> • Natural Resources Conservation 	<u>Individual/Team</u>
<ul style="list-style-type: none"> • Environmental Quality 	<ul style="list-style-type: none"> • Cultural Resources Management
<ul style="list-style-type: none"> • Environmental Restoration 	<ul style="list-style-type: none"> • Sustainability
<ul style="list-style-type: none"> • Environmental Excellence in Weapon System Acquisition, Large Program 	<ul style="list-style-type: none"> • Environmental Excellence in Weapon System Acquisition, Small Program

Description of Awards for Fiscal Year 2011

Natural Resources Conservation – Small Installation and Individual/Team (Tab A)

To recognize efforts to promote the conservation of natural resources, including the identification, protection, and restoration of biological resources and habitats; the sound management and use of the land and its resources; and the promotion of the conservation ethic. Environmentally beneficial landscaping is also a factor in this award. Nominations may be: (a) from any level of the Military Departments or Defense Agencies and (b) any U.S. Military active or closing installation worldwide.

Cultural Resources Management – Installation (Tab B)

To recognize efforts to promote the management of cultural resources, including the identification, protection, and restoration of historical buildings and structures; archaeological sites; Native American tribes and Native Hawaiian sacred objects and sites; and the promotion of the cultural resources conservation ethic. Nominations may be: (a) from any level of the Military Departments or Defense Agencies and (b) any U.S. Military active or closing installation worldwide.

Environmental Quality – Non-Industrial Installation and Individual/Team (Tab C)

To recognize efforts to ensure mission accomplishment and protection of human health through implementation of environmental management systems in the areas of environmental planning, waste management, and safe drinking water. Nominations may be: (a) from any level of the Military Departments or Defense Agencies and (b) any U.S. Military active or closing installation.

Sustainability – Industrial Installation (Tab D)

To recognize efforts to prevent or eliminate pollution at the source, including practices that increase efficiency and sustainability in the use of raw materials, energy, water, or other resources. Nominations may be: (a) from any level of the Military Departments or Defense Agencies and (b) any U.S. Military active or closing installation worldwide.

Environmental Restoration – Installation and Individual/Team (Tab E)

To recognize efforts to protect human health and the environment by cleaning up identified DoD sites in a timely, cost-efficient, and responsive manner. Nominations may be: (a) from any level of the Military Departments or Defense Agencies and (b) any U.S. Military active or closing installation within the 50 United States and U.S. Territories.

Environmental Excellence in Weapon System Acquisition – Team (Tab F)

To recognize efforts to incorporate environmental, safety, and occupational health requirements into the weapon system acquisition program's decision-making process. Nominations may be from any level of the Military Departments or Defense Agencies. Presented to a team working within the weapon system acquisition community from any level of the Military Departments or Defense Agencies. One or more, but not all, of the team members may be contractor employees; the other team members must be DoD civilian employees or members of the U.S. Armed Forces.

Nomination Process

Each Military Service (through its Military Department) and Defense Agency may submit one nomination for each of the nine awards identified above to the Deputy Under Secretary of Defense for Installations and Environment (DUSD(I&E)).

Installations, individuals, and teams that previously won the Secretary of Defense Environmental Award for a given category are ineligible to compete within the same category using the same accomplishments for any subsequent submission. New accomplishments within the same categories, subject to the stated achievement period, are acceptable.

The nominating Military Service or Defense Agency is responsible for clearing nominations for public release. The nominating Military Service or Defense Agency shall submit nomination packages electronically in pdf format via: (a) email to Robert.Furlong@osd.mil, or (b) on a compact disk (CD) along with a Military Service or Defense Agency nomination memorandum to the DUSD (I&E). DUSD (I&E) will upload all nominations on the Defense Environmental Network and Information Exchange (DENIX) website for online viewing by the judges and subsequent viewing by the public. It is the responsibility of the nominating Military Service or Defense Agency to ensure that the judges receive a clean copy of the nomination packets that they can easily download in a timely manner.

Upon receipt of the nomination packet, a panel of judges from government, non-governmental organizations, academia, and the private sector will evaluate the nominations on five key criteria, as described in the Judging Guidance:

1. Program Management
2. Technical Merit
3. Orientation to Mission
4. Transferability
5. Stakeholder Interaction

Nomination Packet Requirements and Format

The achievement period for the Fiscal Year 2011 Secretary of Defense Environmental Awards is the previous two fiscal years, inclusive of the award year (specifically FY2010 & FY2011). Nominations packets must be submitted using the format and guidelines prescribed in this document. The nomination packet shall contain the following components as described below for each installation/individual/team:

1. Compliance History (no page limit)
2. Nomination Submission Page (see guidance below)
3. Narrative (no more than 7 pages)
4. Narrative Summary/Awards Ceremony Brochure Summary (no more than 1 page)
5. Photographs for Ceremony Brochure (6 photos; no more than 2MB per photo)
6. Photograph captions (see guidance below)
7. Logo

Compliance History

Each installation in the U.S. or its territories shall submit to OSD the latest available Detailed Facility Report from the U.S. Environmental Protection Agency (EPA) Environmental Compliance History Online (ECHO) database in pdf format. (<http://www.epa-echo.gov/echo/>).

Installations with High Priority Violations (HPV) or Significant Non-Compliance (SNC) during the achievement period are not eligible to compete in any category of the Secretary of Defense Environmental Awards related to the violation(s), unless the installation can prove (with supporting documentation), that its inclusion in the ECHO report is erroneous. Prior to submitting nomination packets to DUSD(I&E), DoD Components shall screen nominees against the ECHO report as well as their own internal reporting on environmental violations at each of the installations nominated.

Nomination Submission Page

Each nomination packet shall include a submission page with the following information:

1. Award category
2. Name of nominated person, team or installation
3. Title of nominee(s) (if individual/team award)
4. Telephone numbers (commercial and DSN) for nominee
5. E-mail address of nominee
6. Mailing address (appropriate for receipt of trophy) of nominee
7. Name of nominating individual
8. E-mail address of nominating individual
9. Telephone numbers (commercial and DSN) for nominating individual
10. Mailing address of nominating individual
11. The name of the winner as it will appear on the award (engraving plate)

Narrative

Each nomination packet shall include a narrative regarding the chosen award category, as described in Tabs A-F. The narrative shall consist of single-spaced text (12-point font) and may use graphics (i.e., tables, charts, diagrams, photographs, maps) to clarify accomplishments, but not videos or music. Graphic fonts, including photograph descriptions, should be no smaller than 10 point. The total text and graphics of the award narrative shall consist of no more than seven (7) single-sided 8 ½” x 11” pages when printed, including cover pages. The narrative shall clearly address the five major judging criteria: program management, technical merit, orientation to mission, transferability, and stakeholder interaction.

Summary for Awards Ceremony Brochure

The nomination packet shall contain a one-page summary, suitable for use in the awards ceremony brochure. The summary shall consist of single-spaced text (12-point font) on a single-sided 8 ½” x 11” page. **Failure to include the additional one-page summary will disqualify the nomination packet.** The summary shall include a paragraph (no more than 600 words) that (1) introduces the individual, team, or installation nominated for the award category, and (2) describes in non-technical language the project(s), program(s), effort(s) conducted by that individual, team, or installation. The summary should also include four to six bullets (no more than 60 words per bullet) describing the most outstanding accomplishments by the nominated individual, team, or installation during the award cycle. To the extent feasible, such accomplishments should be quantifiable (e.g., “improvements resulted in reducing net carbon dioxide emissions by 5,000 tons ...”).

Photographs for Awards Ceremony Brochure

Each nomination packet shall include at least six four-by-six-inch photographs for use in the SECDEF Environmental Awards ceremony brochure. These photographs must be provided in jpeg electronic format with a minimum resolution of 300 dots per inch (dpi) and not more than 2MB/image.

Photograph Captions

Each photograph must be accompanied by a three-sentence caption (**not imbedded in the photo**) in a Microsoft Word format that illustrates the nominee’s performance in the submitted award category, suitable for direct importation into a brochure.

Logo

Each nomination packet shall include a high-quality 300 dpi image of the nominee’s activity logo.

Judging Guidance

General: It is not necessary to compare an installation quantitatively for the installation awards; or an individual with a team for the individual/team awards. Rather, the nominees should be judged qualitatively relative to the five criteria below: (1) how well the nominee managed the program; (2) the program's technical merits; (3) how well the program supported the military readiness/civil works mission; (4) how effectively the nominee disseminated program's lessons learned to others; and (5) the nominee's success in involving stakeholders in the program.

Program Management:

1. Did the nominee demonstrate improvement during the period under consideration?
2. Was there a recognized management system structure in place to effectively manage the environmental aspects of the mission? (Note that third party registration of the management system is not a DoD policy requirement.)
3. Did the program demonstrate substantive involvement with appropriate internal office (e.g. funds manager, master planner, real property manager, utilities engineer and/or logisticians)?
4. Were all required plans prepared and were they up-to-date?
5. Did the nominee clearly identify program milestones?
6. Did the nominee demonstrate cost savings and mission benefits?

Technical Merit:

1. Was the program effective in protecting, enhancing, and/or restoring the environment?
2. Did the program preferentially target reduction of significant sources of waste and harmful discharges and emissions, while maintaining or improving overall mission and environmental, safety, and health performance?
3. Did the program promote more efficient and sustainable use of resources?
4. In what way were techniques successful?
5. Will the technique endure over time?

Orientation to Mission

1. Did the program or environmental management system demonstrate substantive involvement of individuals directly responsible for the military readiness or civil works mission, as appropriate for the accomplishments cited, in the nomination package?
2. Did the program contribute to the successful execution or enhancement of the nominee's military readiness/civil works mission?
3. Did the program help identify and develop "mitigation measures" as necessary? Were these measures effective?

Transferability

1. Can others adopt this program elsewhere within and/or outside of DoD?
2. Will program results outlive the presence of the specific individual(s) responsible for the program's success?
3. Did the nominee demonstrate progress in transferring innovations to others within and outside of DoD?

Stakeholder Interaction

1. Did the program interact with the surrounding community, state and local regulators, and non-governmental organizations? (U.S. only)
2. Did the nominee establish volunteer and partnership programs? What were the contributions of these partners? (U.S. only)
3. Did the nominee develop public and in-house education and outreach programs? (U.S. only)
4. Did the program promote public access? (U.S. only)
5. Did the program include substantive opportunities for public involvement and two-way communication? (U.S. only)
6. Did the program achieve success in enhancing environmental awareness and community involvement for base personnel and residents of military housing? (Overseas only)

Tab A1
Secretary of Defense Environmental Award Category
Natural Resources Conservation – Small Installation

Installation: Presented to small installations with 10,000 acres or less and can include leased, military-owned, or administered outlying ranges or training practice areas. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

Introduction: Describe the mission, approximate civilian and military population (unless classified), and total acreage of the nominee. To be eligible for natural resources awards, installations must have an approved and up-to-date Integrated Natural Resources Management Plan (INRMP). List the total acres under the nominee's INRMP, followed by a description of the component acreage under the natural resources management program (e.g. improved, semi-improved, and unimproved acreage; acres of managed forests, wildlife, grazing, agriculture, unique natural areas, lakes, or wetlands; miles of streams or coastline; and acres available for hunting, fishing, and other outdoor recreation). List significant natural features of the nominee, such as geological, botanical, and archaeological assets.

Background: Provide the dates of completion and revision, if appropriate, of the nominee's INRMP. List the cooperative agreements that support the INRMP and their dates of preparation and revision. Describe the organization and staffing of the nominee's natural resources management program and progress made to incorporate requirements identified in the INRMP into the nominee's environmental management system. Describe any committees or boards that influence the nominee's natural resources management program.

Program Summary: Describe the most outstanding features of the natural resources program during the achievement period. Describe the objectives of the INRMP and the degree of attainment of each objective during that period.

Accomplishments: Describe the most outstanding accomplishments of the achievement period. Examples of accomplishments can be found at Tab A3.

Judging: The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. The program's technical merits.
3. How well the program supported the military readiness mission and how well the program works with range managers.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel, residents, and the local community in the program.

Tab A2
Secretary of Defense Environmental Award Category
Natural Resource Conservation – Individual/Team

Individual or Team: Presented to any person or team consisting of two or more persons who have made a significant and lasting contribution to natural resources conservation. If nominated for an individual award, the nominee must be a DoD civilian employee or a member of the U.S. Armed Forces. If nominated for a team award, one or more, but not all, of the members of the team may be contractor employees; the other team members must be DoD civilian employees or members of the U.S. Armed Forces. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

Background: List the individual's or each team member's, name, title or position, and employing organization.

Position Description: Provide a summary of the nominee's major routine duties and responsibilities during the achievement period.

Awards and Services: List and describe awards and other special natural resources conservation recognition given to the nominee during the preceding two fiscal years, inclusive of the award fiscal year. Describe related professional achievements, including community service work, and participation in professional organizations.

Accomplishments: Describe the most outstanding accomplishments of the nominee during the achievement period. Examples of accomplishments can be found at Tab A3.

Judging: The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee(s) managed the program.
2. The program's technical merits.
3. How well the program supported the military readiness mission and how well the program works with range managers.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel, residents, and the local community in the program.

Tab A3

Natural Resources Conservation Accomplishments

Overall Natural Resources Conservation Management

1. Multiple-use coordination of forestry, land use management, outdoor recreation, wildlife, aesthetics, and threatened and endangered species habitat with the military/civil works mission and other operations.
2. Improvements in planning, programming, and budgeting, including innovative cost reduction initiatives, to support the conservation program.
3. Use of alternative management approaches, technologies, and staffing to enhance the conservation program.
4. Status of the INRMP implementation.
5. Application of principles and guidelines of ecosystem management in a regional planning context, to include consideration of economic, social, and environmental factors.
6. Monitoring of wildlife or ecosystems types and changes over time in relation to climate change.

Mission Enhancement

How accomplishments and improvements in the natural resources management program have enhanced the ability of the nominee to carry out its military/civil works mission. Describe how the mission was enhanced because the INRMP provided the conservation benefits for a listed species instead of a critical habitat designation.

Land Use Management

1. Erosion control and other water quality protection.
2. Water conservation.
3. Agricultural land management, including prime and unique farmland protection, and out leasing programs.
4. Natural resources improvements and benefits due to agricultural out leases.
5. Environmentally beneficial landscaping and native plant conservation/use, emphasizing those that reduce long-term maintenance costs.
6. Coordination and cooperation with U.S. Department of Agriculture Natural Resources Conservation Service, County Agricultural Extension Service, and/or other land management agencies.

Forest Management

1. Reforestation.
2. Timber-stand improvements.
3. Use of prescribed burning.
4. Establishment and protection of unique forest areas.
5. Cooperative efforts with U.S. Forest Service, state foresters, and similar groups or agencies.
6. Commercial forestry programs.

Fish and Wildlife

1. Health of species and habitats.
2. Protection of federal and state listed threatened and endangered species and their habitats.
3. Game and non-game fish and wildlife habitat improvements.

4. Reintroductions and stockings of native species.
5. Degree of access and use of hunting and fishing opportunities by the nominee's personnel and the general public.
6. Improvements in permitting programs; fee schedule for hunting, fishing, or other opportunities.
7. Identification and protection of significant wildlife resources.
8. Protection and enhancement of biodiverse ecosystems and critical habitats.
9. Protection or enhancement of migratory bird habitat and flyways.
10. Coordination and cooperation with U.S. Fish and Wildlife Service, and state fish and wildlife agencies, including annual program reviews of effectiveness of INRMP implementation.
11. Coordination with state wildlife conservation plans.

Other Natural Resources

1. Camping, bird watching, and trails (nature, hiking, and watchable wildlife).
2. Off-road vehicle use and control.
3. Permit program.
4. Estimated number of users; both general public and DoD personnel.
5. Cooperation and coordination with federal, state, and local outdoor recreation agencies.
6. Provisions for disabled access.
7. Native pollinator conservation/enhancement.
8. Research, development, and demonstration/validation activities.

Invasive Species Control and Pest Management

1. Applications of integrated pest management that support and improve the nominee's natural resources management program, especially procedures that reduce required pesticide applications.
2. Efforts to control nuisance and nonnative invasive species and preventing invasion and/or rapid detection and immediate control of invasive species that adversely impact mission training capabilities and nominee's natural resources.
3. Scouting, public school classes, and other group activities related to natural resources conservation.

Conservation Education (on and off nominee's property)

1. Natural resources management regulations and enforcement program.
2. Gun and water safety, woodsmanship, camping, and outdoor ethics programs.
3. Scouting, public school classes, and other group activities related to natural resources conservation.

Community Relations

1. Public awareness programs and involvement in natural resources conservation programs on and off the nominee's property.
2. Affiliation of the nominee's personnel with civic and private natural resources conservation organizations and academic institutions.
3. Cooperation with federal, state, local, and private natural resources conservation organizations and academic institutions.
4. Volunteer and partnership programs, i.e., level of participation, benefits to the nominee.

Environmental Enhancement

How accomplishments and improvements in the natural resources management program have improved the quality of life for the nominee's personnel and for surrounding communities.

Natural Resources Compliance Program

1. Interaction with regulators, inspectors, and auditors, including any open biological opinions or court actions.
2. Budget data to illustrate adequate funding is budgeted and received.
3. Natural resources damage assessment efforts.

Tab B1
Secretary of Defense Environmental Award Category
Cultural Resources Management – Installation

Installation: Presented to an installation that has made a significant and lasting contribution to cultural resources management. The type or size of installation does not matter in this award category. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

Introduction: Describe the mission, approximate civilian and military population (unless classified), and total acreage of the nominee. List the total acres covered by the nominee's integrated cultural resources management plan. Summarize the historical context of the nominee. Summarize the types of historical or cultural resources managed by the nominee.

Background: To be eligible for cultural resources awards, installations or civil works facilities must have an approved Integrated Cultural Resources Management Plan (ICRMP). Provide the dates of preparation or revision of the nominee's ICRMP, describe major resource features, and National Register status. List any programmatic agreements, significant memoranda of agreement, programmatic alternatives, and/or comprehensive agreements developed between the nominee and governmental or other organizations; their dates of preparation or revision; and explain the overall benefit of any such agreements on the installation's cultural resource management program. If applicable, also list the use of any Program Alternatives (also known as Alternate Procedures) issued to the DoD by the Advisory Council on Historic Preservation. Describe the organization and staffing of the nominee's cultural resources management program. Describe any committees or boards that influence the nominee's cultural resources management program. Successful candidates shall demonstrate exemplary management, such as producing a demonstration project or utilizing a winning method or technique applicable to the accomplishments.

Program Summary: Describe the most outstanding program features of the achievement period. Describe the objectives of the integrated cultural resources management plan and the degree of attainment of each objective during that period.

Accomplishments: Describe the most outstanding accomplishments of the achievement period. Examples of accomplishments can be found at Tab B2.

Judging: The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. The program's technical merits.
3. How well the program supported the military readiness/civil works mission.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel, residents, and the local community in the program.

Tab B2

Cultural Resources Management Accomplishments

Overall Cultural Resources Management

1. Improvements in planning, programming, and budgeting, including innovative cost reduction initiatives to support cultural resources management.
2. Coordination of cultural resources management with mission operations, real property asset management, range sustainment, and general operations such as construction, building maintenance, and repair.
3. Use of alternative management approaches, techniques, and staffing to enhance the program.
4. Status of ICRMP, inventory status (archaeological resources, historic buildings), and status of National Register eligibility evaluations.
5. Use of other available programs to support cultural resources (e.g. Environmental Security Technology Certification Program, Legacy, conservation easement authorities, etc).

Historic Buildings and Structures

1. Use of the asset to support mission needs (including adaptive reuse).
2. Maintenance and repair (including cost effective measures).
3. Rehabilitation (including economic analysis).
4. Tax credits (leased and privatized properties).
5. Resources inventoried and/or evaluated for National Register eligibility.
6. Accuracy of the historical status in the real property inventory.

Archaeological Resources

1. Sites inventoried and/or evaluated for National Register nomination.
2. Site protection/compliance enforcement.
3. Data recovery efforts.
4. Public interpretation efforts.
5. Research initiatives and scientific contributions.
6. Artifact recovery versus in situ protection.

Native American Program

1. Established Consultation Program.
2. Cultural items.
3. Protection of sacred sites.
4. Natural resources uses (including subsistence and ceremonial).
5. Access provisions.
6. Inventory and repatriation efforts completed or in the process of being completed for all Native American Grave Protection and Repatriation Act cultural sites.

Curation

1. Curation facility provisions.
2. Agreements with others to curate collections.
3. Collection status as required by 36 CFR 79.
4. Ongoing efforts to improve management in accordance with 36 CFR 79.
5. Availability of collections to researchers and interested public.

Cultural Resources Awareness and Education (on and off nominee property)

1. Awareness programs for the nominee's military and civilian personnel.
2. Scouting, public school classes, and other group activities related to cultural resources conservation.
3. Contributions to educational programs at academic institutions.

Community Relations

1. Public interpretation of cultural resource assets
2. Public awareness programs and involvement in cultural resources preservation efforts on and off the nominee's property.
3. Affiliation of the nominee's personnel with civic and private cultural resource conservation organizations and academic institutions.
4. Cooperation with federal, state, tribal, local, and private cultural resources conservation organizations and academic institutions.
5. Volunteer and partnership programs, i.e. level of participation, benefits to the nominee.
6. Involvement/efforts related to Preserve America, Executive Order (E.O.) 13287.

Environmental Enhancement

How accomplishments and improvements in the cultural resources management program have improved the quality of life of the nominee's personnel and of surrounding communities.

Mission Enhancement

How accomplishments and improvements in the cultural resources management program have enhanced the ability of the nominee to carry out its military/civil works mission.

Cultural Resources Compliance

1. Interaction with National Park Service, state historic preservation offices, Advisory Council on Historic Preservation, Native American tribes, housing privatization partners, and community groups, as appropriate.
2. Budget data to illustrate adequate funding is budgeted and received.
3. Enforcement of requirements for consultations prior to initiating actions with effects on cultural resources.
4. Enforcement of legal protections.
5. Examples of success in managing significant or complex cultural resources compliance issues. If applicable, include the use of any National Historic Preservation Act program alternatives, such as DOD-wide or service specific Program Comments.

Tab C1
Secretary of Defense Environmental Award Category
Environmental Quality – Non-Industrial Installation

Installation: Ranges, test centers, and research and development (R&D) centers, should compete in the non-industrial category. Installation having a primary mission of producing, maintaining, or rehabilitating military equipment should not compete in the non-industrial category. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

Introduction: Describe the mission, approximate civilian and military population (unless classified), and total acreage of the nominee. Describe the environmental, geographical, political, economic, and community setting of the nominee.

Background: Summarize the significant environmental aspects of the mission and other environmental challenges affecting the nominee. Describe the organization and staffing of the nominee's environmental management program, the management approach employed, and the extent of conformance with DoD and Component environmental management system (EMS) policy and guidance. Describe the nominee's involvement in community committees, boards, and partnerships that affect the nominee's management of the environmental aspects of the mission. Describe significant environmental plans and agreements, including the dates of preparation or latest revision.

Program Summary: Describe the objectives of the environmental management program or, when applicable, the EMS, as well as the degree to which the nominee attained relevant objectives during the achievement period. Describe the extent to which line organizations have demonstrated operational controls and are effectively managing significant environmental aspects to achieve environmental objectives and long-term mission sustainment. Describe the most outstanding features of the program during that period, including significant progress on EMS implementation and operation. Describe what is unique about the program, its cost effectiveness, and whether it goes beyond meeting statutory and regulatory requirements.

Accomplishments: Describe the most outstanding accomplishments and how the nominee improved the environmental quality program during the achievement period. Examples of accomplishments can be found at Tab C3.

Judging: The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program and EMS implementation.
2. The program's technical merits.
3. How well the program supported the military readiness/civil works mission and how effectively management of significant environmental aspects was integrated into mission activities, as reflected by involvement of line organizations in EMS implementation.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving installation personnel, residents, and the local community in the program.

Tab C2
Secretary of Defense Environmental Award Category
Environmental Quality – Individual/Team

Individual or Team: Presented to any person or team, consisting of two or more persons, that has made a significant and lasting contribution to their environmental management program, the management approach employed, and environmental management system (EMS) implementation. If nominated for an individual award, the nominee must be a DoD civilian employee or member of the U.S. Armed Forces. If nominated for a team award, one or more, but not all, of the members of the team may be contractor employees; the other team members must be DoD civilian employees or members of the U.S. Armed Forces. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

Introduction: Describe the mission, approximate civilian and military population (unless classified), and total acreage of the nominee. Describe the environmental, geographical, political, economic, and community setting of the nominee.

Background: List the individual's or each team member's name, title or position, and employing organization.

Position Description: Provide a summary of the nominee's major routine duties and responsibilities during the achievement period.

Awards and Services: List and describe any awards and other special environmental quality recognition given to the individual or team during the preceding two fiscal years, inclusive of the award fiscal year. Describe any related professional achievements, including community service work, and participation in professional organizations.

Accomplishments: Describe the most outstanding accomplishments of the nominee during the achievement period. Examples of accomplishments can be found at Tab C3.

Judging: The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program and EMS implementation.
2. The program's technical merits.
3. How well the program supported military readiness, and how effectively management of significant environmental aspects were integrated into mission activities, as reflected by involvement of line organizations in EMS implementation.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel and residents of military housing in the program.

Tab C3 Environmental Quality Accomplishments

EMS

1. Setting/meeting goals, objectives, and targets.
2. Conducting EMS audits and feeding results back into process improvement procedures
3. Management review process.
4. Stakeholder involvement and integration of environmental management with mission/energy/transportation activities.
5. Use of cross-functional teams
6. Training (awareness, executive, and implementation team).
7. EMS impacts on the installation and environmental/operational issues.

Waste Reduction Efforts (all media areas)

1. Maintaining permits and compliance records.
2. Operating plant/facility improvements.
3. Material or process change/source reduction, including identifying projects, materials, and process changes to enhance and ensure the long-term sustainability of the mission, to prevent resource depletion, and to avoid adverse impacts on natural assets and human health.
4. Sampling/monitoring techniques.
5. Human health considerations.
6. Recycling efforts and accomplishments.
7. Reducing funds expended.

Environmental Compliance Assessment and Management Program

1. Self-assessments and follow-up, including root cause analysis and overall program management.
2. Interaction with regulators with regard to inspections, agreements, and other regulatory actions (U.S. only).
3. Budget data to illustrate adequate funding is budgeted and received.
4. Environmental operations and programs.
5. Training programs.
6. Water resource management

Effective Use of Funds

Describe ways in which the program allowed the nominee to reduce funding expenditures, enhance performance, or increase productivity within the environmental budget and relevant line organization budgets.

Community Relations (U.S. Only)

1. Programs and activities to enhance environmental awareness and community involvement (both on and off-site) and affiliation of the nominee's personnel with civic and local environmental organizations.
2. Cooperation with federal, state, local agencies, organizations, and academic institutions.

3. Environmental education efforts including Community Right-to-Know activities (on and off installation).
4. Compliance with E.O. 12898, “Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Population,” February 11, 1994; and documentation, identification, and analysis of any disproportionate impacts on targeted minority or low-income communities.

Community Relations (Overseas)

Programs and activities to enhance environmental awareness and community involvement for base personnel and residents of military housing.

National Environmental Policy Act (NEPA) Planning, Analysis, and Implementation (U.S. only)

1. Methodology, integration, and institutionalization of environmental analyses into planning and decision making for each proposal.
2. Setting objectives and goals that promote long-term operational sustainability and developing a plan of action to streamline the process of identifying the proposed action, appropriate alternatives, and mitigation measures.
3. Management techniques employed and their effectiveness in public involvement and participation, to include actions to engage in cooperative consultation with other federal, state, and local agencies, and Native Americans (Indians, Alaskans, and Hawaiians).
4. Examples of ensuring editorial excellence, including readability and brevity.
5. Controls to monitor the environmental effects of the proposed action and the impact of mitigation measures adopted.

Environmental Planning and Analysis (Overseas only, E.O. 12114, “Environmental Effects Abroad Of Major Federal Actions”)

1. Application of innovative environmental analysis, flexibility in analysis, and cost reduction.
2. Scoping and/or focusing analysis in order to streamline the process of identifying the proposed action, appropriate alternatives, and mitigation measures.
3. Setting objectives and goals that promote long-term operational sustainability and developing a plan of action.
4. Proposals analyzed, decisions made, and the environmental planning process executed for each proposal.
5. Methodology for integrating environmental analyses into planning and decision-making.
6. Results of impact mitigation measures.

Tab D1
Secretary of Defense Environmental Award Category
Sustainability – Industrial Installation

Installation: Presented to an industrial installation, with a primary mission of producing, maintaining or rehabilitating military equipment, that has made significant progress in implementing sustainable practices, as defined in E.O.13423. Ranges, test centers, and research and development (R&D) centers should not compete in the industrial category. The size of installation does not matter in this award category. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

Introduction: Describe the mission, approximate civilian and military population (unless classified), and total acreage of the nominee. Describe the environmental, geographical, political, economic, and community setting of the nominee.

Background: Summarize the significant environmental aspects of the mission and other environmental challenges affecting the nominee. Describe the nominee's sustainability program, including the functional offices represented and the management approach used. Describe the nominee's green procurement program, including the involvement of environmental, procurement, and line personnel. Describe programs for improving stakeholder involvement from line organizations, communities, or boards that assist in and influence sustainable practices.

Program Summary: Describe the objectives of the sustainable practices, master planning, natural infrastructure management, improved air quality and green construction practices (including reduction, reuse, and recycling of toxic contaminants, reduction of water and energy use, increase in use of renewables and green procurement) and the degree of attainment of each objective during the achievement period. Describe the most outstanding features of the program during the period, including plans developed and progress made towards integrating sustainable practices into the management of mission activities.

Accomplishments: Describe the most outstanding accomplishments during the achievement period. Examples of accomplishments can be found at Tab D2.

Judging: The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. The program's technical merits.
3. How well the program supported the military readiness/civil works mission, how effectively sustainable practices were integrated into mission activities, and how they were used to enhance long-term mission sustainability.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel, process owners, residents and the local community in the program.

Tab D2 Sustainability Accomplishments

Livable Communities, Master Planning and Green Buildings - Describe how construction practices, new structures, and existing structures:

1. Optimize site potential and incorporate low impact development.
2. Minimize energy consumption and maximize energy reduction.
3. Protect and conserve water, resulting in water consumption reduction during construction and facility operations.
4. Incorporate storm water management.
5. Enhance indoor environmental quality.
6. Optimize operations and maintenance practices.
7. Identify facilities planned, underway and completed to US Green Building Council standards, or other equivalent standards, and level of certification achieved, if any.
8. Updating master plans to create livable communities.

Compliance with E.O. 13514, "Federal Leadership in Environmental, Energy and Economic Performance," October 5, 2009

Describe how the nominee is reducing green house gas emissions.

Material Management

1. Describe efforts to identify possible alternatives to environmentally harmful substances or virgin materials. Describe how alternatives avoid resource depletion and impacts on the natural environment and human health, thereby supporting long-term operational sustainability.
2. Describe how substitutes reduce/eliminate environmental issues.
3. Determine if the material substitution is transferable to other processes on the nominee's property or at other DoD locations.
4. Describe efforts by industrial process owners/operators to implement pollution prevention/sustainability initiatives.
5. Describe reduction in risk, costs, emissions, virgin material and/or hazardous material used in the changed process. Describe how the changes avoid resource depletion and impacts on human health and the environment. Explain how changes support long-term operational sustainability.
6. Describe how the nominee has changed its material management practices to reduce use of hazardous materials.
7. Describe measurable results achieved with the changed material management practices (e.g., a decrease in generation of air or water pollution, a decrease in volume and cost of hazardous waste disposal, a reduced risk to workers, and/or a cost savings in procurement of materials).

Compliance with E.O. 13423, "Strengthening Federal Environmental, Energy, and Transportation Management," January 26, 2007

Describe how the nominee is meeting the goals in section 2 of E.O. 13423.

Recycling Program - Describe the following:

1. The type and size of the recycling program (exclude metals recycling).
2. The types of solid waste materials recycled.
3. Other materials recycled, including hazardous materials.

4. The installation composting program, if one exists.
5. Manufacturing source reduction.
6. Cost avoidance (total solid waste management costs) from recycling.
7. Building materials recycling and deconstruction recycling.
8. New recycling technologies or techniques used in recycling.
9. How activities or communities benefited from the recycling program.

Green Procurement

1. Describe type and size of the green procurement program.
2. Describe nature and extent of personnel/organizational awareness training in federal green purchasing programs (affirmative procurement of recycled content products, bio-based products, energy efficient products, low standby power products, water conserving products, low-volatile organic chemical products, and others as appropriate).
3. Describe functional areas participating in the green procurement program.
4. Identify EPA guideline items purchased.
5. Identify other recycled content and environmentally preferable items purchased.
6. Describe increases in the purchase and use of recycled content items.
7. Explain nominee's use of performance measurement to improve program effectiveness.
8. Identify modifications of specifications, statements of work, and contracts to promote purchases of recycled content items.

Education, Outreach, and Partnering

1. Describe programs implemented that enhance sustainability at any level or any functional area of the Military Department or Defense Agency.
2. Describe community involvement, activities, and affiliations with civic and environmental organizations in sustainability.
3. Describe cooperation with federal, state, local agencies, organizations, and academic institutions on sustainability activities.
4. Describe efforts to gather community stakeholder input in establishing sustainability objectives relevant to the mission.

Tab E1
Secretary of Defense Environmental Award Category
Environmental Restoration – Installation

Installation: Presented to an installation that has made a significant contribution to environmental restoration. The type or size of the installation does not matter for this category. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

Introduction: Describe the mission, approximate civilian and military population (unless classified), and total acreage of the nominee. Describe the environmental, geographical, political, economic, and the community setting of the nominee.

Background: Summarize the nominee's environmental restoration challenges. Describe the organization, staffing, and management approach of the nominee's environmental restoration program. Describe community involvement programs, such as restoration advisory boards (RABs) or technical review committees (TRCs). List any environmental restoration agreements and the dates of their preparation or last revision. List any relevant environmental restoration plans, schedules, or associated documents, (e.g., records of decision and engineering evaluation/cost analysis). List any initiatives undertaken in the environmental restoration program.

Program Summary: Describe the objectives of the nominee's environmental restoration program and the degree of success reached for each objective during the achievement period.

Accomplishments: Describe the nominee's most outstanding accomplishments during the achievement period. Examples of accomplishments can be found at Tab E3.

Judging: The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. The program's technical merits.
3. How well the program supported the military readiness/civil works mission.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel, residents, and the local community in the program.

Tab E2
Secretary of Defense Environmental Award Category
Environmental Restoration – Individual/Team

Individual/Team: Presented to any person or team consisting of two or more persons, who have made significant and lasting contributions to environmental restoration. If nominated for an individual award, the nominee must be a DoD civilian employee or member of the U.S. Armed Forces. If nominated for a team award, one or more, but not all, of the members of the team may be contractor employees; the other team members must be DoD civilian employees or members of the U.S. Armed Forces. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

Introduction: Describe the mission, approximate civilian and military population (unless classified), and total acreage of the nominee. Describe the environmental, geographical, political, economic, and the community setting of the nominee.

Background: List the individual's, or each team member's name, title or position, and employing organization.

Position Description: Provide a summary of the nominee's major routine duties and responsibilities during the achievement period.

Awards and Services: List and describe awards and other special recognition given to the individual during the preceding two fiscal years, inclusive of the award fiscal year. Describe related professional achievements, including community service work and participation in professional organizations.

Accomplishments: Describe the most outstanding accomplishments of the nominee during the achievement period. Examples of accomplishments can be found at Tab E3.

Judging: The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. The program's technical merits.
3. How well the program supported military readiness.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel, process owners, residents, the local community, and other stakeholders in the program.

Tab E3

Environmental Restoration Accomplishments

Accelerated Environmental Cleanup

1. List the nominee's efforts to accelerate cleanup at sites.
2. Identify the number of acres or percentage of land cleaned up and subsequently transferred back to the community to date, relative to progress made by other installations, other DoD Components, and DoD restoration goals.
3. Describe initiatives to integrate property reuse/development into site cleanups.
4. Give examples of streamlining in the environmental restoration process that have resulted in accelerated cleanups.

Innovative Technology Demonstration/Validation and Implementation

1. Provide examples of innovative technologies that reduced the nominee's environmental restoration costs.
2. Describe innovative technologies the nominee demonstrated, validated, and/or implemented.

Partnerships Addressing Environmental Restoration Issues Between DoD and Other Entities

1. Describe how the nominee worked with the state, local government, and affected community or other federal agencies to improve effectiveness, reduce costs, and accelerate cleanups.
2. Describe tangible results of those efforts including documented decisions and/or agreements reached with stakeholders.

RABs

1. Describe significant accomplishments achieved by any RAB that has operated for at least one year.
2. Explain how the community regards the RAB.
3. Explain if there has been a positive change in public opinion since the RAB's formation.

Opportunities for Small and Small Disadvantaged Businesses in Environmental Restoration

1. Describe small businesses opportunities for and involvement in the nominee's environmental restoration program.
2. Describe initiatives to increase opportunities for small business to participate in the nominee's environmental restoration program.
3. Identify the number of small business jobs the nominee generated in-house and in the community as a result of the nominee's environmental restoration program.
4. Identify awards or recognition the nominee received for promoting small businesses through the environmental restoration program.

Reducing Risk to Human Health and the Environment

1. Describe how cleanup activities reduced the risk to human health and the environment.
2. Describe how improvements in the nominee's site management techniques reduced the risk to human health and the environment.
3. Describe how improvements in the nominee's site characterization techniques reduced the risk to human health the environment.

Green Remediation

1. Describe your strategy to implement green and sustainable remediation opportunities and present any guidance you may have issued or have under development.
2. Describe your success in implementing green and sustainable remediation and discuss any innovative approaches (e.g. tools, partnerships, etc.) used to achieve success.

Tab F1
Secretary of Defense Environmental Award Category
Environmental Excellence in Weapon System Acquisition – Team

Team: Presented to any team that is part of acquisition program of record consisting of two or more persons which has (1) established an environment, safety and occupational health (ESOH) effort to identify ESOH risks, document those risks, and mitigate the associated risks through systems engineering for one or more systems acquisition programs, and/or (2) established a partnership with the system's end users to fully address long-lead NEPA compliance requirements before the system is delivered. One or more, but not all, of the team members may be contractor employees; the other team members must be DoD civilian employees or members of the U.S. Armed Forces. Winners will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

Background: List the team name and each team member's name, title or position, and employing organization.

Position Description: Provide a summary of each team member's major duties and responsibilities during the achievement period.

Awards and Services: List and describe program related awards and other special recognition given to each team member during the preceding two fiscal years, inclusive of the award fiscal year. Describe related professional achievements, including community service work and participation in ESOH related professional organizations.

Accomplishments: Describe the most outstanding ESOH related accomplishments of the team during the achievement period. Examples of accomplishments can be found at Tab F2.

Judging: The judges will evaluate nominations based on the following criteria (see Tab F3 for additional detail):

1. How well the nominee executed and managed the ESOH effort.
2. The technical merits of the ESOH effort and early integration of ESOH risk management into the systems engineering process include, but not limited to, effective use of MIL-STD-882D resulting in implementation of ESOH mitigation measures on the system or subsystems early in the life-cycle.
3. How well the program oriented its ESOH effort to optimize mission sustainability, mission readiness and total ownership costs.
4. How effectively the nominee executed and documented the ESOH effort in the Systems Engineering Plan, Test and Evaluation Master Plan, and Programmatic ESOH Evaluation (PESHE).
5. The nominee's success in involving user organizations and program/Integrated Product Teams (IPT) external to the ESOH effort and in raising awareness of ESOH considerations and risks associated with the system.
6. How effectively the program planned and supported system related NEPA/EO 12114 analyses by providing system specific data and other relevant information to complete the analyses.

Tab F2

Environmental Excellence in Weapon System Acquisition Accomplishments

Weapon System Acquisition Program

1. Briefly describe the systems acquisition program.
2. Describe the nominee's ESOH effort and approach relative to the systems engineering process and program management including coordination with users for risk management.
3. Describe other organizations/IPTs that influenced or participated in the nominee's ESOH activities.

Incorporating ESOH Integration into Systems Engineering

1. Describe the extent to which the nominee met the requirements of DoD Directive 5000.01, "The Defense Acquisition System," May 12, 2003; DoD Instruction 5000.02, "Operation of the Defense Acquisition System," December 8, 2008; MIL-STD-882D, "DoD Standard Practice for System Safety," February 10, 2000. See *Defense Acquisition Guidebook*.
2. Summarize the following aspects of the team's ESOH effort:
 - a. The PESHE process and the strategy used to integrate ESOH considerations into the systems engineering process.
 - b. How the nominee incorporated ESOH requirements and analyses (i.e., system safety analyses, emissions characterizations, hazardous materials elimination/reduction) into solicitations, contracts, and other requirements documents.
 - c. How the nominee prioritized and addressed ESOH risks associated with the system with respect to the system's life cycle.
 - d. How the nominee evaluated and/or gave preference to using energy-efficient and environmentally preferable products/materials for use on and/or in support of the respective system or subsystems.

ESOH Risk Management

1. Describe how the program identified, mitigated, and tracked ESOH risks using the methodology in MIL-STD 882D (and DoDI 5000.2) and progress made during the award period. Identify how the program reviewed ESOH risks and technology requirements at program technical reviews and at the appropriate level of the program review process. Discuss how the program coordinated high and serious risks with the user representative, how they formally accepted these risks, and how they presented these risks at program reviews and fielding decisions.
2. How the program evaluated the system using the total systems approach to address potential risks which include:
 - a. All ESOH regulatory compliance requirements associated with the system throughout its life cycle;
 - b. Hazardous material use and hazardous waste generation;
 - c. Pollution (i.e. effluents, discharges, emissions, noise);
 - d. Safety (including system safety, explosives safety, ionizing and non-ionizing radiation);
 - e. Human health (associated with exposure to chemical, physical, biological, or ergonomic hazards, etc.);
 - f. Environmental and occupational noise; and impacts to the natural environment; and
 - g. National Environmental Policy Act (NEPA)/EO 12114 analysis and impacts on the physical environment as appropriate.
3. Describe key risks identified, mitigations measures and level of success reducing the risk, user involvement in the process, and transferability within DoD.
4. Describe potential life cycle cost avoidance or savings from design and/or process changes identified to mitigate system-related ESOH risks over the life cycle.

Hazardous Materials Management and Pollution Prevention

1. Describe the approach used to identify and characterize hazardous materials, wastes, emerging technologies, and pollutants (discharges/emissions/noise) associated with the system and plans for minimization, control and/or safe disposal.
2. Did the nominee develop or coordinate the development of a hazardous materials management program or a hazard tracking system to document the reduction in hazardous materials usage and associated risks?
3. When using potentially hazardous materials, did the nominee take steps to select those materials that posed the least risk throughout the life cycle of the system? Did the nominee identify environmentally preferable products and track these products to ensure their inclusion in technical manuals and authorized materials lists?
4. Describe the nominee's efforts to determine whether alternatives are available and effective and meet the safety, health, reliability, and other mission-related requirements of the system.
5. Discuss how the ESOH effort provided input to demilitarization and disposal planning for the system/subsystem to include information on hazardous materials, safety precautions, and other ESOH considerations.

External Coordination

1. Describe actions implemented to enhance acquisition ESOH awareness at any level or any functional area within the program and/or DoD.
2. Describe how cooperation with federal, state, and local agencies, organizations, and academic institutions influenced weapon system acquisition.
3. Describe how the program performed technology transition efforts that other programs across the Components could implement.

Tab F3
Environmental Excellence in Weapon System Acquisition
Judging Guidance

General: Judge the nominees qualitatively relative to the following criteria:

Program Management:

1. How well the nominee managed and documented the ESOH effort to meet acquisition program/capability requirements and reduce ESOH related drivers of total ownership costs over the life cycle of the system.

Technical Merit:

2. The technical merits of the ESOH effort and integration of life cycle ESOH risk management into the systems engineering process using the methodology in DoDI 5000.02, *Operation of the Defense Acquisition System*, December 8, 2008 and the MIL-STD-882D, *DoD Standard Practice for System Safety*, February 10, 2000.

Orientation to Mission Sustainability:

3. How well the program incorporated ESOH lessons learned from similar legacy systems and mishap data from the Service Safety Centers.

Internal Execution and Documentation:

4. How effectively the nominee executed and documented the ESOH effort in the PESHE (per the DoDI 5000.02). This would include: (a) identification of ESOH responsibilities within the program; (b) the strategy for and execution of integrating ESOH considerations into the systems engineering process; (c) identification of ESOH risks and their status; (d) a description of the method for tracking hazards throughout the life cycle of the system; (e) identification of hazardous materials, wastes, and pollutants (discharges/emissions/noise) associated with the system and plans for their minimization and/or safe disposal; and (f) incorporation of a compliance schedule covering all system-related activities for NEPA/EO 12114 compliance as appropriate.

External Coordination of ESOH Risks Management

5. How well the nominee succeeded in involving and coordinating with the test and evaluation team, user community, receiving organization(s), and others with respect to integrating ESOH risk management in the lifecycle of the program.
6. How did the nominee's effort result in minimized cost, schedule, or performance risks to the program by minimizing ESOH risks. How well the nominee communicated ESOH risks effectively and how well the nominee ensured they transferred mitigations through lessons learned to other weapon system programs.