#### Compliance Assurance Oversight at the Missile Defense Agency



#### May 6, 2009

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- Environmental compliance at MDA is a function that cuts across all agency activities and all of the facilities and host installations where we do business.
- MDA recognized that we need a more formal, systematic approach to oversight of compliance activities – an approach that focuses on activities that pose the greatest cost and schedule risks to MDA's program
- This presentation describes a practical, risk-minimizing approach currently being considered by MDA to help assure environmental compliance across all agency activities

CAO allows extra attention to be focused where it's needed most



## **MDA Mission**

- □ Broad scope and global reach
  - Mission is to protect the U.S. homeland, deployed forces, Allies and friends against ballistic missiles of all ranges and in all phases of flight
  - Missile defense consists of a layered system of multiple types of interceptor systems, all linked together
  - Characterized by rapidly developing technologies and response to evolving threats
  - Activities occur at Army, Navy, Air Force, and host country installations worldwide
- Initial capability for limited defensive operations was deployed in 2004



- Main product of MDA's Environmental Management Program is compliance
- □ Activities that support all MDA programs and special studies:
  - Prepare and review NEPA documents (EAs, EISs, CATEXs), including E.O. 12114 analysis
  - Ensure compliance with individual service regulations (e.g., Army, Navy, Air Force), host nation requirements, and individual range needs
  - Prepare air, water, and stormwater discharge permits; surface water monitoring; noise monitoring and modeling; and environmental baseline surveys
  - Support consultations with Federal and state agencies (e.g., Fish & Wildlife Service, National Marine Fisheries Service, Historic Preservation)
  - Provide support to facility siting studies
- □ These activities reduce risk, as well as future compliance burdens
- All compliance activities are conducted within the framework of MDA's Environmental Management System (EMS)



## **Noncompliance Risks**

- □ Numerous causes of noncompliance
  - Easy for issues to "slip through the cracks" with numerous MDA and host installation requirements
  - Changes in schedule
    - ✓ Program priorities may change
    - ✓ Range may have conflicts with other users
  - Protracted agency reviews
- □ Implications of noncompliance
  - Test delays result in significant costs to a program
  - Increased risk of litigation
    - ✓ Always present: a 2001 lawsuit required substantial time commitment from MDA legal and environmental staff
    - ✓ Can minimize, but not eliminate



## **Emergence of CAO**

- □ Purpose of Compliance Assurance Oversight (CAO)
  - To ensure that environmental compliance processes at locations with MDA activities are suitable and adequate
  - Ensure that plans for environmental compliance are being followed
- Intended CAO focus is on locations where perceived risk of noncompliance is greatest. Considerations include:
  - Magnitude, scope, and frequency of activities
  - Relative environmental risk and potential for environmental liabilities
  - Potential for public visibility or controversy
- CAO goes beyond NEPA compliance and allows MDA to apply resources to areas where perceived risk is greatest



# **CAO Has Broad Applicability**

- □ MDA's compliance assurance program includes:
  - Environmental Baseline Surveys (EBSs): conducted prior to occupying a site AND after leaving site
  - MDA contracts and agreements: reviewed for inclusion of risk reduction language
  - Training: project-level staff made aware of environmental requirements and risks
  - Mitigation monitoring: verify implementation and effectiveness of mitigation techniques
  - NEPA: implement consistent and thorough NEPA process
  - <u>Auditing</u>: review environmental compliance practices
- CAO is entirely consistent with MDA's "Plan, Do, Check, Act" approach to continual improvement



## **Common Threads in CAO Reviews**

- □ Many opportunities to conduct CAO reviews
- Although program is still being developed at MDA, common threads include projects with greatest potential to get senior management attention:
  - Potential environmental liabilities
  - Potential schedule delays
- □ We've encountered few surprises
  - High level of understanding and professionalism at DoD installations
  - Risks are generally well understood and are being addressed

CAO provides an excellent opportunity for informal communications and early resolution of problems



#### **CAO Procedures**

- □ Prepare schedule for assessments and resource needs
  - Affected by results of prior assessments or changes in activities or locations
  - > May occur at any location where MDA conducts business
- Scope and criteria for assessments for each location are established in advance
- □ Assessments may be done "in office" or in the field
  - Desktop assessments begin with a data call; follow-up may or may not be needed
  - On-site assessments may be done to field-check and ground-truth the results of earlier desktop assessments
  - Deficiencies identified are noted and addressed as needed
- Assessment type and frequency are established on a priority basis based on previous assessment results, perception of ongoing risks, and available resources



- To ensure objectivity, CAO assessment team members will have no functional responsibility within the location to be assessed
- To ensure quality, at least one member of each team should be experienced in the CAO assessment process
- All team members will be aware of a location's compliance requirements for the activity
- Staff uses computer-based tools and established procedures to make CAO more thorough and effective
  - Currently reviewing needs
  - Goal is to continuously improve the CAO process

CAO requires knowledgeable & experienced assessment teams



#### **Representative Examples**

- The following three examples illustrate some of MDA's initial CAO efforts
- □ Each example shows a different aspect of CAO:
  - An EBS and Environmental Compliance Assessment and Management Program (ECAMP) at Wake Island
  - HazMat concerns for an Air Force program at Edwards Air Force Base (EAFB), CA
  - Review of potential environmental liabilities at Vandenberg Air Force Base (VAFB), CA



## Ex. 1: Wake Island Transfer

- Air Force conducted EBS and ECAMP at Wake Island in 2002 prior to the transfer of operational control from Army to Air Force
- Purpose was to identify compliance issues prior to regaining operational control of Wake Island from the Army
- □ Air Force review included 365 sites and resulted in 210 findings
  - Listed responsible party and order-of-magnitude costs for findings
  - Prompted discussions between Army and Air Force
- □ MDA participated on-site for the entire ECAMP
  - Results helped provide proper perspective on findings and magnitude of potential liabilities
  - Helped to shift focus on Federal Facility Compliance Agreement between Army and EPA



## Ex. 2: ABL HazMat at EAFB

- Many technical, cost, and schedule challenges from this high technology, cutting edge program
- Minimization and mitigation of potential chemical leaks were identified as an ongoing challenge for the testing program
- MDA environmental team requested information about status of inventory of HazMat, risks, waste streams, and management processes/procedures
- □ Found that ABL has on-going, in-depth oversight from:
  - Air Force reviews and audits
  - Boeing safety and structural reviews
  - Independent assessment team reviews
  - ABL Program review



## Ex. 3: Env. Review at VAFB

- Tested MDA's procedure for identifying and evaluating environmental liabilities associated with property, plant, and equipment
  - Visited each of the buildings with MDA assets
  - Used a field observation worksheet to identify potential environmental liabilities
- Discovered no environmental liabilities, but:
  - Recognized need to provide training to MDA personnel
  - Met with personnel for a major program that already has an extensive oversight and quality control function, including its own EMS
- Both MDA and VAFB recognized value of a systematic and consistent review



## **CAO Pros & Cons**

#### □ Pros:

- Provides framework for independent review and focuses attention on areas of greatest perceived risk
- Allows experienced staff flexibility in office and field reviews
- Uses standardized processes and worksheets to document the assessments
- **Cons:** 
  - A developing program with potential to reduce risks
  - Need to fight perception as "auditors" to ensure access to key personnel and information (we are not inspectors that can impose fines)
  - Must fully coordinate a CAO review with the host installation or organization to identify purpose and scope and identify any assistance needed



## **Lessons Learned To Date**

- Many CAO opportunities exist throughout MDA's environmental management program
  - A flexible program
  - Can take action on short notice
- CAO allows a "fresh set of eyes" on a program and the associated benefits of an independent review
  - Even if there are no problems identified, CAO may allow a new or better method to be used at a facility to accomplish a goal
  - Useful lessons learned can be shared with others
- Affords an excellent opportunity to identify and resolve issues informally



#### **Questions?**

