

**National Defense Industrial Association  
International Explosives Safety Symposium & Exposition  
San Diego, California  
August 6-9, 2018**



**Overview of  
Explosives Safety Governance  
in the  
Department of Defense**

**Art Kaminski**  
Director, Policy Development  
Department of Defense Explosives Safety Board



### Secretary of Defense:

- Principal defense policy advisor to the President
- Responsibilities: General defense policy and policy related to all matters of direct concern to the DoD; Execution of approved policy; Under the direction of the President, exercises authority, direction, and control over the DoD

**Office of the Secretary of Defense (OSD):** Helps the Secretary plan, advise, and carry out the nation's security policies as directed by both the Secretary of Defense and the President

**Chairman of the Joint Chiefs of Staff:** Principal military advisor to the President, the National Security Council, and the Secretary of Defense



**The Joint Staff:** Principal staff element of the Chairman of the Joint Chiefs of Staff



**Military Departments:** Responsible for organizing, training, and equipping forces for assignment to Unified Combatant Commands

**Unified Combatant Commands:** Accomplish the military missions assigned to them





## DoD Directives

- Establish policy, assign responsibilities, delegate authority to DoD Components
- 2 types: Direct Oversight & Chartering
- Generally signed by Secretary of Defense Or Deputy Secretary of Defense
- 12 pages

## DoD Instructions

- Establish policy
- May contain overarching procedures
- Signed by OSD Component Heads
- 50 pages per volume

## DoD Manuals

- Implement or supplement a directive or instruction
- Identify uniform procedures
- Signed by OSD Component Heads, Principal Deputies, and other OSD PAS officials
- ★ All DoD publications that are not manuals (e.g., catalogs, handbooks, standards, regulations, etc.) will be converted into manuals on their next reissuance
- 100 pages per volume



## **Chairman, Joint Chiefs of Staff Instruction (CJCSI)**

- Contains CJCS/JS Policy
- Can also include procedures
- May implement or supplement DoD Issuances

## **Joint-Use Technical Manuals**

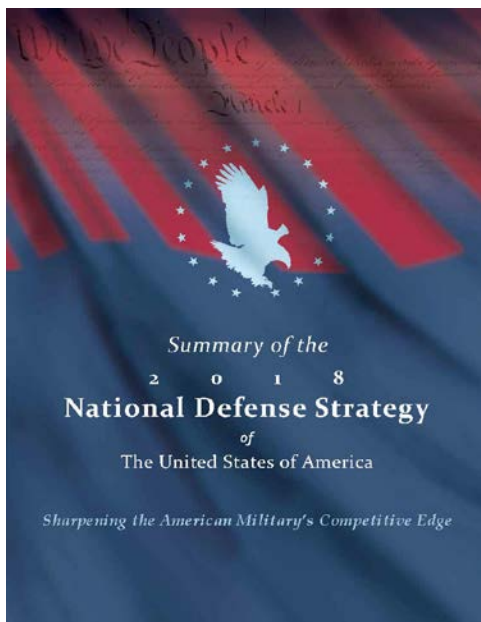
- Publications containing instructions for the installation, operation, maintenance, training and support of weapon systems, weapon system components and support equipment, to include Interactive Electronic Technical Manuals (IETM)
- Published by 2 or more components

## **Unified Facilities Criteria**

- Provide planning, design, construction, sustainment, restoration, and modernization criteria
- Apply to the Military Departments, the Defense Agencies, and the DoD Field Activities

## **Defense Standards (Mil-Std)**

- Establish uniform engineering and technical requirements for military-unique or substantially modified commercial processes, procedures, practices, and methods



## Build a More Lethal Force

## Strengthen Alliances and Attract New Partners

## Reform the Department for Greater Performance and Affordability

*"I expect you to pursue actively these three lines of effort. Set disciplined goals, collaborate across components, and model appropriate ethical behavior. Remember, attitudes are caught from those who set the example - use your force of personality to lead with a sense of urgency and purpose every day, so that we leave this Department in even better shape for those that follow."* Secretary James N. Mattis, October 5, 2017



DoD 101  
Need More Info?

---

[WWW.DEFENSE.GOV](http://WWW.DEFENSE.GOV)



# DoD Explosives Safety Management

## The DoD Explosives Safety Board (DDESB)



**ORIGIN:** Established in 1928 by Congress after a major disaster at the Naval Ammunition Depot, Lake Denmark, New Jersey in 1926. The accident virtually destroyed the depot, causing heavy damage to adjacent Picatinny Arsenal and the surrounding communities, killing 21 people, and seriously injuring 53 others.

### COMPOSITION

- Voting Board
- Staff

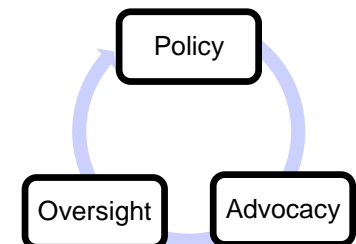


### MAJOR STAFF FUNCTIONS

- Develop and maintain the DoD Explosives Safety Management Program
- Support Combatant Commanders' Missions where DoD Munitions are involved
- Support Multinational Organizations and Operations (NATO, UN, and State Dept)
- Support Joint Staff Assessments
- Develop and maintain DoD Explosives Safety Policy and Regulations
- Evaluate Military Services, Combatant Command and other DoD Explosives Safety Programs
- Perform explosives safety related R&D

### STAFF

- 22 Civilians
- 4 Military
- 1 Contractor





# DoD Explosives Safety Management DDESB Organizational Placement within DoD



James N. Mattis, Secretary of Defense

Ellen M. Lord, Under Secretary of Defense  
(Acquisition & Sustainment)

Lucian Niemeyer, Assistant Secretary of Defense  
(Energy, Installations & Environment )

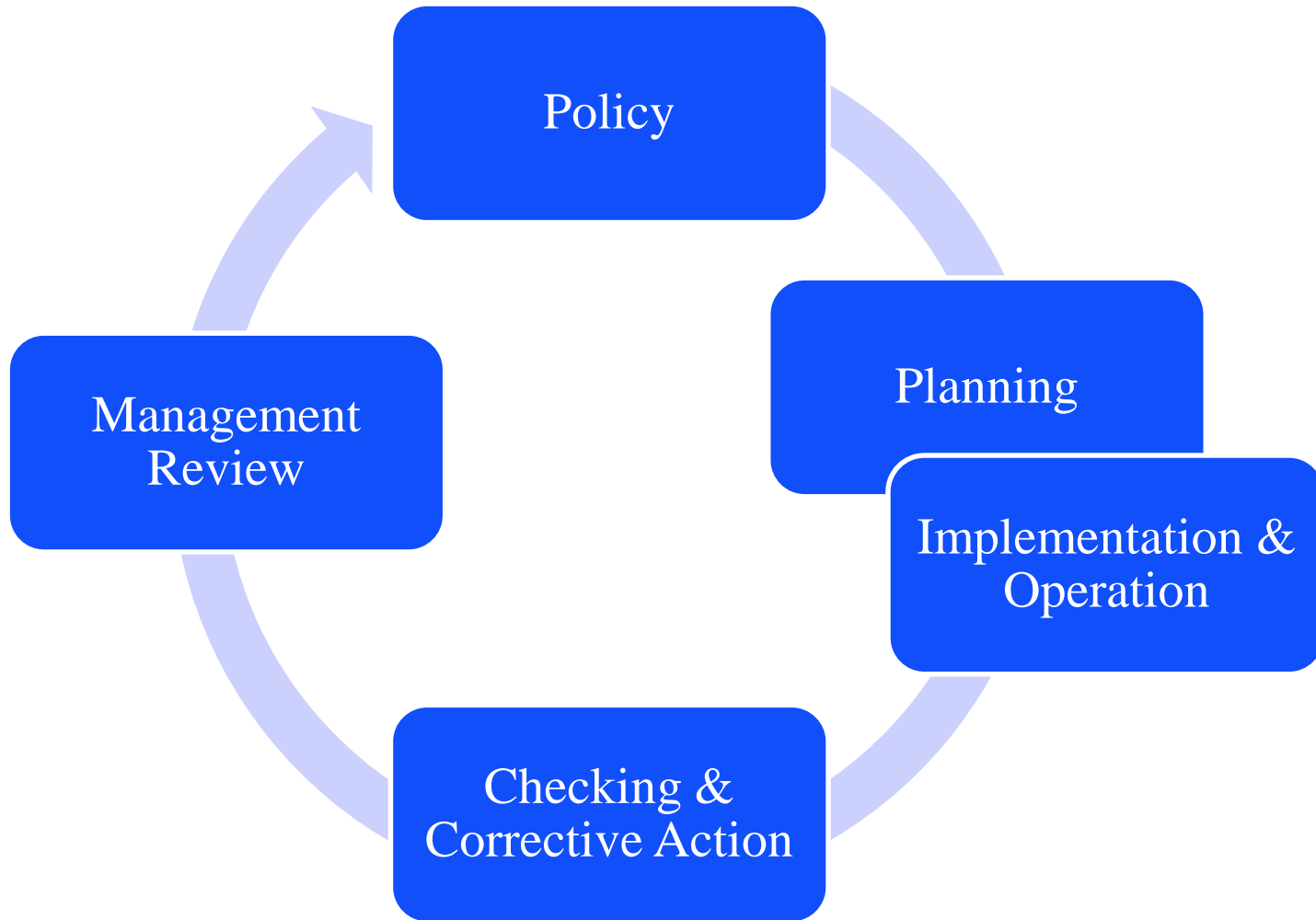
Maureen Sullivan, Deputy Assistant Secretary of Defense  
(Environment, Safety & Occupational Health )

Thierry Chiapello, Executive Director  
Department of Defense Explosives Safety Board





# DoD Explosives Safety Management Review: Classical Management System Model



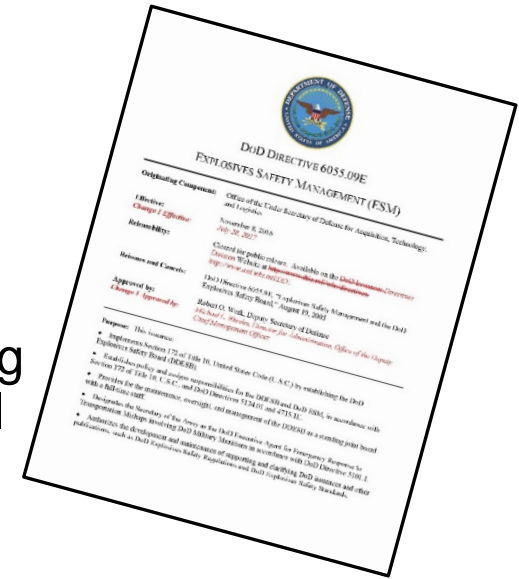


# DoD Explosives Safety Management DoD Directive 6055.09E, Explosives Safety Management



## Purpose

- Charter the DDESB
- Establish Policy for DoD Explosives Safety Management
- ★ Authorizes supporting and clarifying publications (and they carry the full weight and authority of the SECDEF)



## Policy

- Protect people and property from the unintentional, potentially-damaging effects of DoD military munitions
- Expose the minimum number of people for the minimum time to the minimum amount of DoD military munitions required to safely and effectively execute the mission
- Provide for explosives safety of DoD military munitions throughout the munition's life cycle
- Require DoD Components to implement and maintain an effective ESM Program (ESMP)



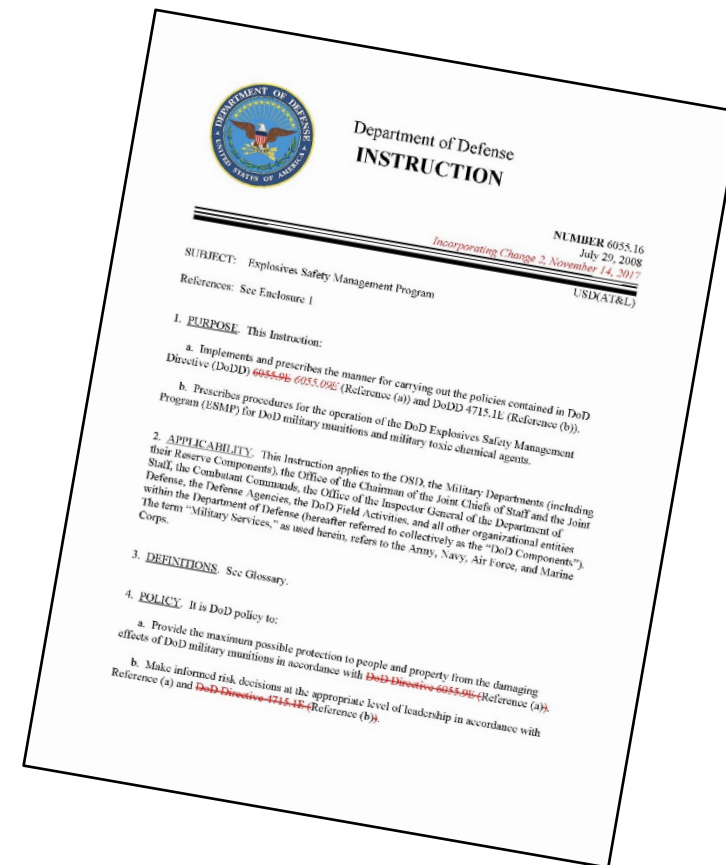
### Purpose

- Implement DoDD 6055.09E
- Prescribe procedures for operation the DoD ESMP



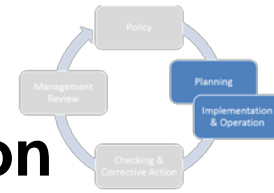
### Update in progress

- Clarifies program elements (pillars)
  - “Human Capital Management”
  - Process Safety Management
  - Transportation
  - Munitions Related Infrastructure
- Continues to standardize terms
- Improves alignment with ESMP evaluations
- Formal coordination targeted for early 2019





## Explosives Safety and Munitions Risk Management for Joint Operations Planning, Training and Execution



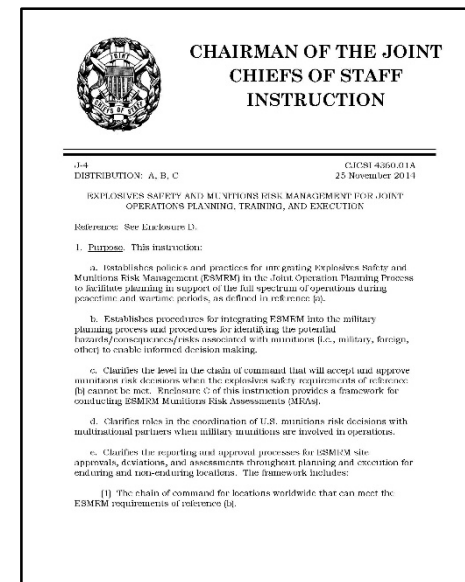
### Purpose

- Policies & practices to integrate ESMRM into all facets of operations
- Clarifies explosives safety reporting and approval processes, especially from a Combatant Commander perspective
- “Operationalizes” explosives safety



### History

- First published 2012
- Administratively updated 2014
- Currently under final staffing of 2018 update
  - Clarifies combatant commander role in munitions related risk decisions in AOR
  - Specifies content of munitions risk assessments



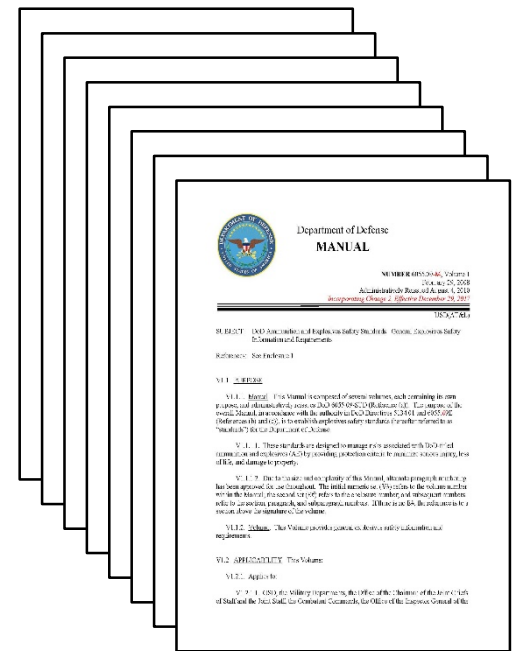


## DoD Ammunition and Explosives Safety Standards

**Purpose:** Establishes explosives safety standards for the Department of Defense – Standards are designed to manage risks associated with DoD-titled ammunition and explosives (AE) by providing protection criteria to minimize serious injury, loss of life, and damage to property.

### Way Ahead

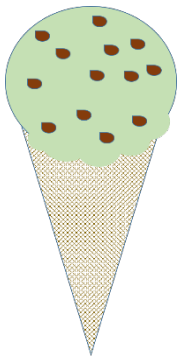
- Replace DoDM with new publication  
“Defense Explosives Safety Regulation”



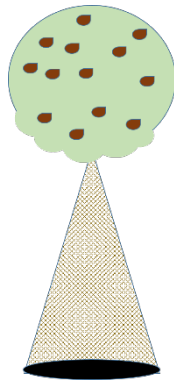


## Gold Star Bullets

- ★ All DoD publications that are not manuals (e.g., catalogs, handbooks, standards, regulations, etc.) will be converted into manuals on their next reissuance
- ★ Authorizes supporting and clarifying publications (DoDD 6055.09E)



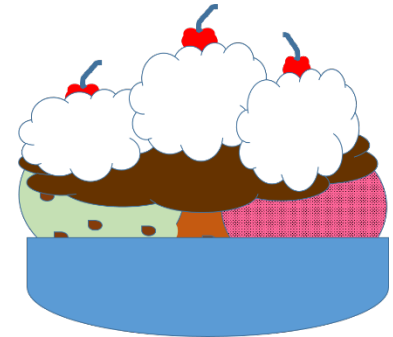
DoD 6055.09-STD



DoDM 6055.09



DESR Edition 1



DESR Edition 2

## DESR 6055.09, Edition 1

- Replaces DoDM 6055.09
- Not a “DoD Issuance” BUT

*carries the full weight and authority of the Secretary of Defense*

- Publication imminent



**DoDI:** DoD Contractor's Safety Requirements for Ammunition and Explosives



**DoDM:** DoD Contractor's Safety Requirements for Ammunition and Explosives

### **Purpose:**

- Instruction establishes policy that DoD shall prescribe and enforce ammunition and explosives safety standards for work performed under DoD contracts
- Manual provides safety requirements for DoD contract work involving ammunition & explosives

### **Revision Underway:**

- Clarify applicability at GOCO facilities (DESR/DoDM 6055.09 vs DoDM 4145.26)
- Eliminate duplicate (conflicting) criteria
- Consider industry input to extent possible



## **DoDI 4140.62**

Material Potentially Presenting an Explosive Hazard

## **TB 700-2**

DoD Ammunition & Explosives Hazard Classification Procedures

## **UFC 3-340-02**

Structures to Resist the Effects of Accidental Explosions

## **DDESB Technical Papers**

- Amplify policy & standards
- Tools
- Approved Designs







# DoD Explosives Safety Management Service Publications



Army Regulation 385–64, U.S. Army Explosives Safety Program  
DA Pam 385-64, Ammunition and Explosives Safety Standards  
Commander's Guide to Explosives Safety Management Program



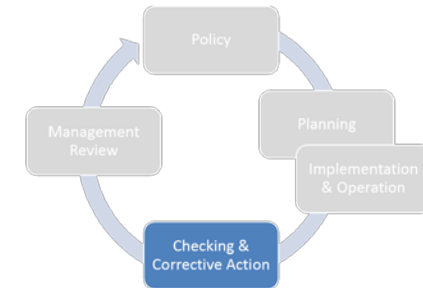
OPNAVINST 8020.14A,  
Department of the Navy Explosives Safety Policy Manual  
NAVSEA OP 4, Ammunition and Explosives Safety Afloat  
NAVSEA OP 5, Ammunition And Explosives Safety Ashore



AF Manual 91-201, Explosives Safety Standards



MCO 8020.10, Marine Corps Explosives Safety Management Program



## • Checking & Corrective Action Processes

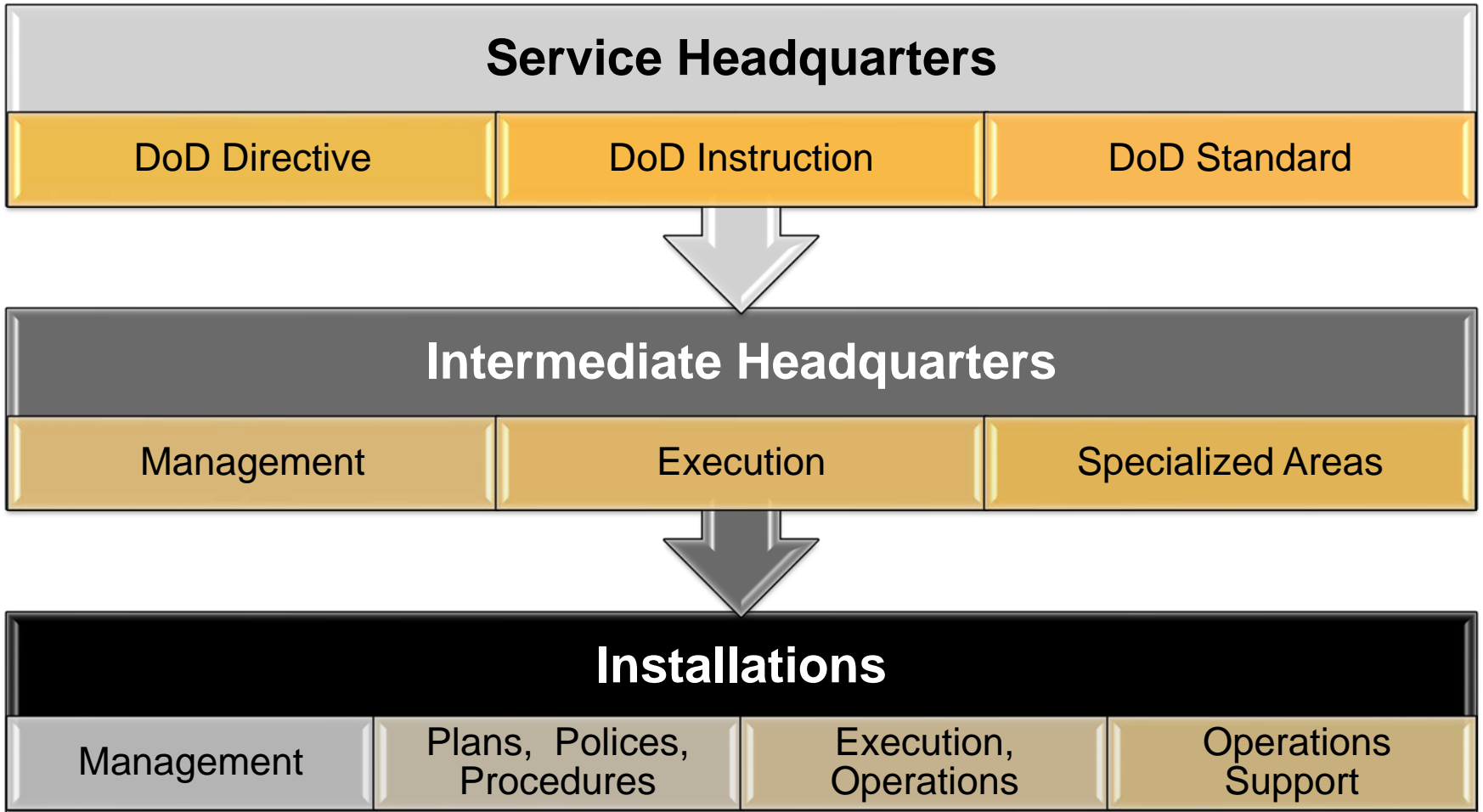
- Normally internal to Components and subordinate units
- Evaluate compliance, Perform internal audits, Implement corrective actions
- Examples
  - ❑ Navy: Ammunition Hazard (AMHAZ) Materials Handling Review
  - ❑ Marine Corps: Explosives Safety Inspection (ESI)
  - ❑ Air Force: Operational Readiness Inspection (ORI)
  - ❑ Army: DAC Ammunition Logistics and Explosives Safety Review

## • Special / Targeted Studies & Evaluations

- DDESB Site Plan Review
- Navy Fleet Concentration Area Magazine Study (FCAMS)
- Korea Evaluation
- Earth Covered Magazine Study

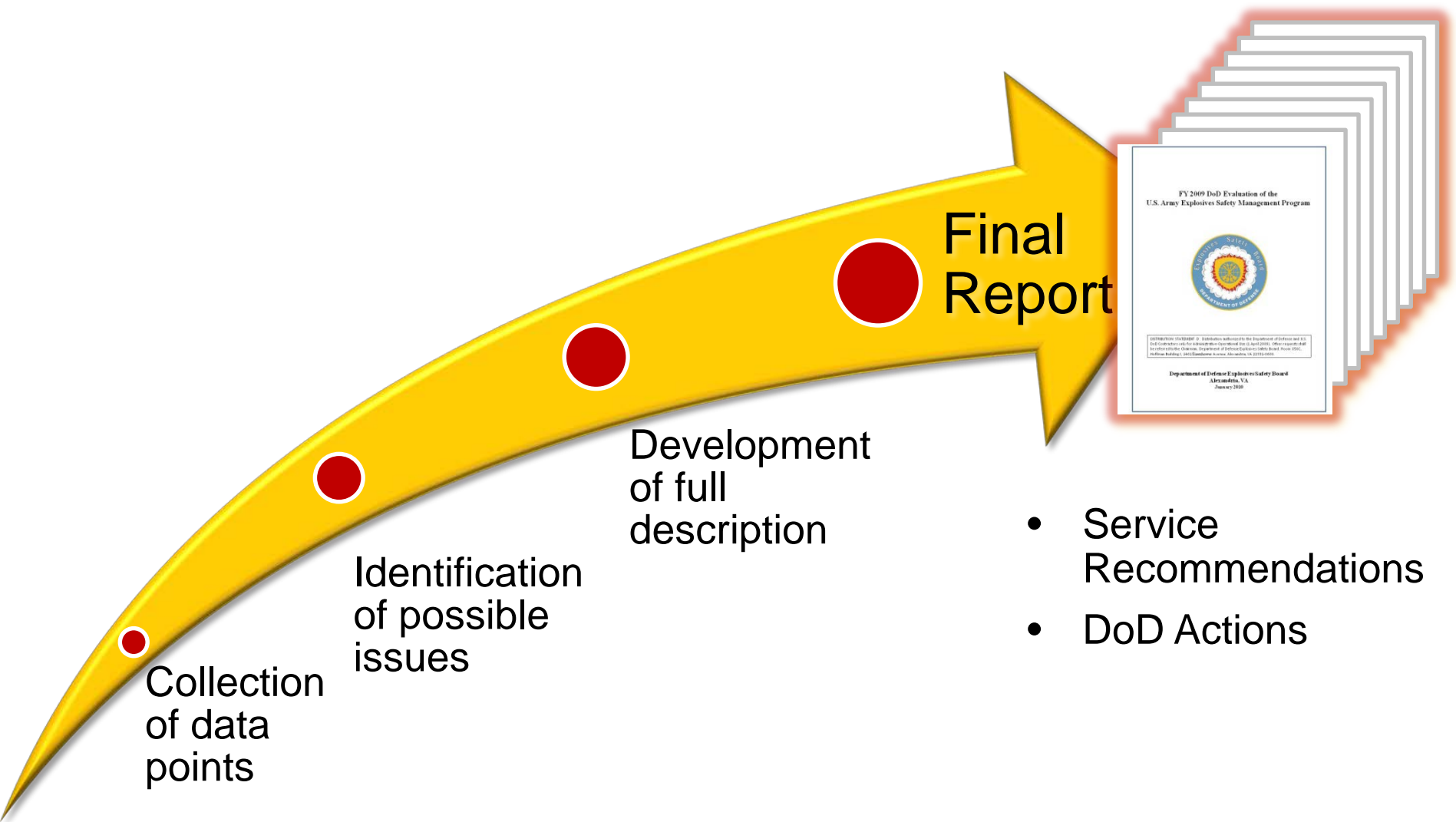


# DoD Explosives Safety Management Program Evaluation Tiered Review Process



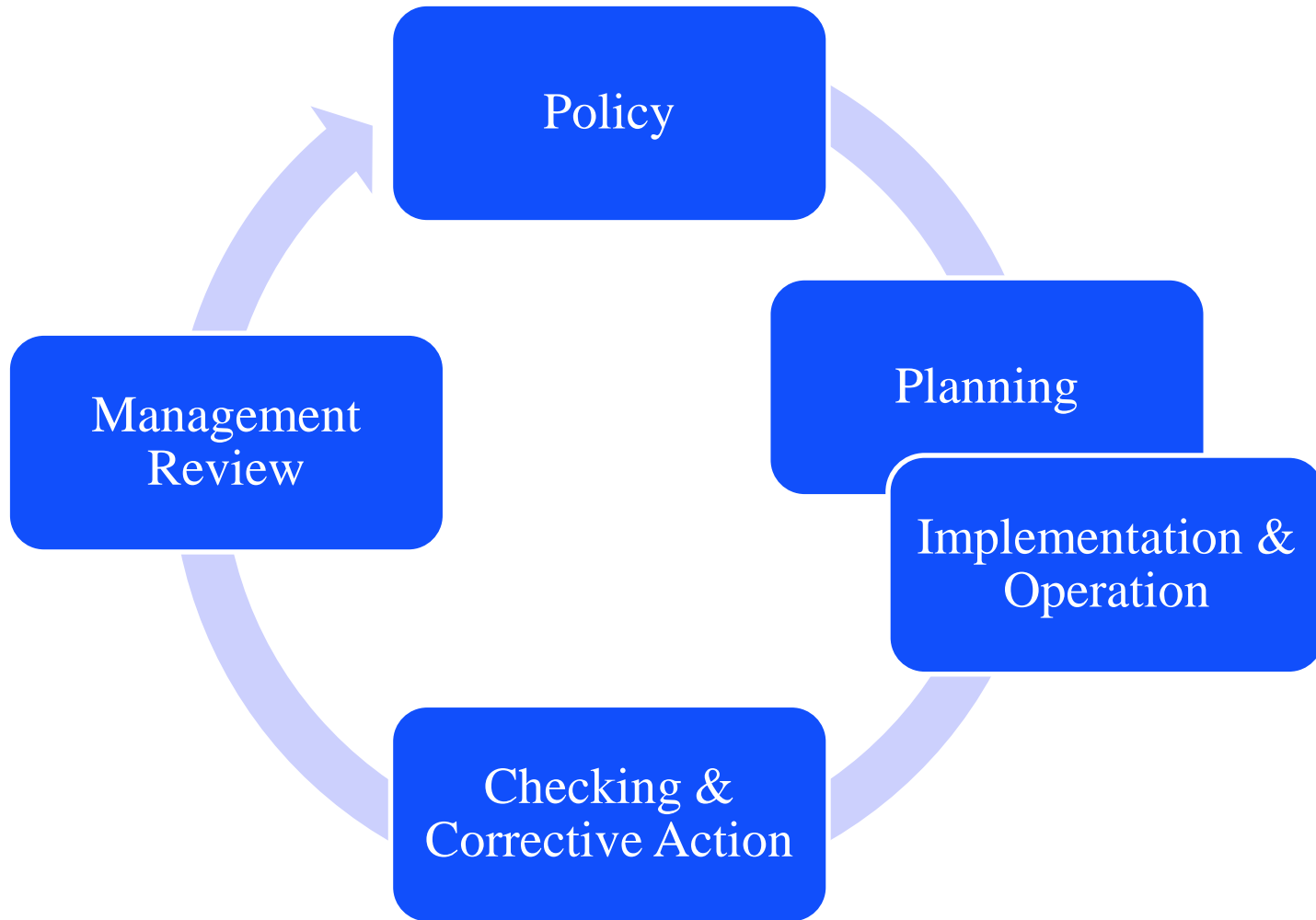


# DoD Explosives Safety Management Program Evaluation Report Development





# DoD Explosives Safety Management Review: Classical Management System Model



**National Defense Industrial Association  
International Explosives Safety Symposium & Exposition  
San Diego, California  
August 6-9, 2018**



**Overview of  
Explosives Safety Governance  
in the  
Department of Defense**

**Art Kaminski**  
Director, Policy Development  
Department of Defense Explosives Safety Board