Overview of Explosives Safety Governance in the Department of Defense

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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
WWW.DEFENSE.GOV
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
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

- Policy
- Planning
- Implementation & Operation
- Checking & Corrective Action
- Management Review
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)

• Adds
  ➢ “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)

**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*

**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
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

Service Headquarters

- DoD Directive
- DoD Instruction
- DoD Standard

Intermediate Headquarters

- Management
- Execution
- Specialized Areas

Installations

- Management
- Plans, Policies, Procedures
- Execution, Operations
- Operations Support
DoD Explosives Safety Management Program Evaluation
Report Development

- Collection of data points
- Identification of possible issues
- Development of full description
- Final Report
  - Service Recommendations
  - DoD Actions
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