



Overview of the Chemical and Biological Defense Program Requirements Process



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**Director, Joint Requirements Office for
Chemical, Biological, Radiological, and Nuclear Defense
J-8, The Joint Staff
Brigadier General Lucas N. Polakowski**

Joint Capabilities Integration and Development System (JCIDS)



- **The Goal of JCIDS is to...**
 - Provide the Joint Force with the capabilities needed to perform across the full range of military operations and challenges
 - Support the Joint Requirements Oversight Council (JROC) in its Title 10 responsibilities
 - Cost, schedule, performance trades
 - Prioritizing joint military requirements in shaping the force
- **Supported by...**
 - Integrated, collaborative review process
 - Leveraged expertise of all government agencies
 - Joint Concepts

JCIDS along with the Defense Acquisition System and the Planning, Programming, Budgeting and Execution processes form the principal DOD decision support processes for developing capabilities required by the military forces to support the national military strategy and the defense strategy



Addressing JCIDS Criticism

- **Previous criticisms of the JCIDS process:**
 - **Solution development and delivery are not timely**
 - **Decisions are made late, or with poorly scoped information**
 - **Process is complex, cumbersome and too document-centric**
 - **Lacks mechanisms to focus review across portfolios**
 - **Does not control “requirements creep”**
 - **Key customers (CCMDs) aren’t included in the process**
 - **Does not have tracking mechanisms to trace developments from gap identification through solution fielding**



How We are Getting There

- **Cost vs. Capability vs. Risk – Better Upfront Analysis of Alternatives**
 - **FCB review of Analysis of Alternatives (AoA) prior to Milestone A**
 - **Highlight non-materiel approaches vice or in conjunction with materiel solutions**
 - **More portfolio analysis to determine risk**
- **Require FCB Joint prioritization of Capability Requirements within their portfolio**
- **JROC validation decision considers Cost, Schedule, Performance and Quantity Target**
- **JROC review of previously validated Requirements/Programs**
- **Formalized Capability Gap Assessment (CGA) Process – Review and assessment of CCMD IPLs by FCBs/JCB for JROC decisions**
- **Incorporate Pre-Milestone A review of AoA Results in support of providing Cost/Schedule/Performance recommendations to the MDA**



JCIDS and Acquisition

President, SECDEF & Chairman:

- Strategic Guidance

OSD/Joint Staff

- Integrated Security Constructs
- Family of Joint Concepts

Identification of Capability Requirements

- Operational Planning
- CBAs & Other Studies
- Exercises/Lessons Learned
- JCTDs/JUON/JEON/Experiments
- JIEDDO Initiatives
- Defense Business Sys

Outputs

- Mission & Problem
- Capability Gaps
- Tasks
- Performance
- Conditions
- Operational Risk
- Non-Materiel Approaches
- Materiel Approaches
- Recommendations

- Analysis of Alternatives (AoA)
- Technology Development Strategy (TDS)
- Test & Evaluation (T&E) Strategy (TES)
- System Engineering Plan (SEP)

Materiel Development Decision

- Technology Demonstrated
- Initial Key Performance Parameters/Key System Attributes (KPPs/KSAs)
- Acquisition Strategy
- T&E Master Plan (TEMP)
- SEP

- Final Design
- Developmental T&E (DT&E)
- Operational Assessments
- Revise KPPs/KSAs
- Acquisition Strategy
- Acquisition Program Baseline (APB)
- TEMP

- Low Rate Initial Production (LRIP)
- Initial Operational T&E (IOT&E)
- Acquisition Strategy
- APB
- TEMP
- SEP

Activity



MS "A"

MS "B"

MS "C"

CCMD



Military Services

SECDEF Joint Staff / Joint Requirements Oversight Council / OSD OSD (AT&L, CAPE), Services and OSD (DOT&E) -- Joint Staff (JROC)

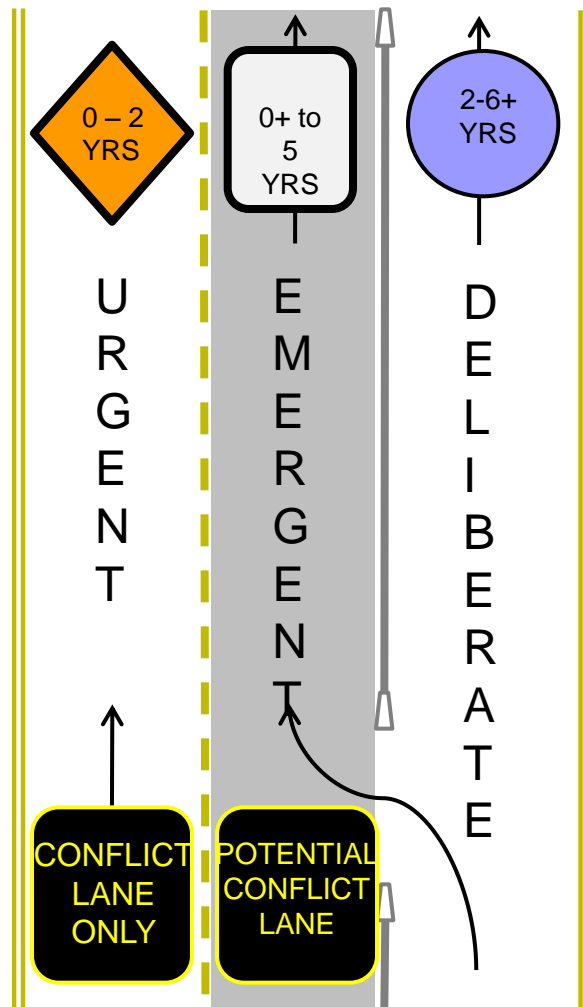
Policy Identify Capability Requirements Select Materiel Solution Develop, Test, Produce & Field

Getting the Front End Right is Key



Requirements Lanes

“Keep right, except to pass”



- **Deliberate Requirements**
 - Service, CCMD or Agency Driven
 - Traditional route for capabilities that require significant tech development and/or are not urgent or compelling in nature
- **Emergent Requirements**
 - CCMD Driven
 - Supports accelerated acquisition of capabilities needed for an anticipated or pending contingency operation
 - VCJCS verifies, JCB or JROC validates
- **Urgent Requirements**
 - CCMD Driven
 - Urgent and compelling to prevent loss of life and/or mission failure during current operations
 - Require little tech development and can be resolved in less than two years
 - DDR validates

Capabilities-Based Assessment Output Documents

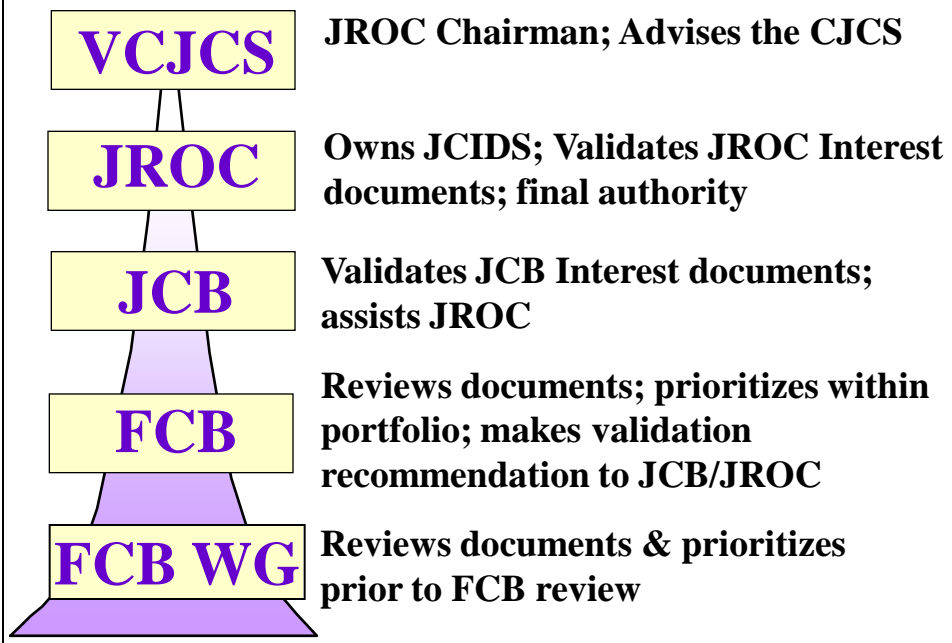


- **Initial Capabilities Document (ICD)**
 - Documents Capabilities-Based Assessment (CBA) results – specifically gaps
 - Identifies relevant operational attributes
 - Documents recommendations for materiel/non-materiel solutions
 - Supports a Materiel Development Decision (MDD) for materiel approaches
- **Capability Development Document (CDD) (Milestone B)**
 - Defines Performance Requirements to Achieve the Capability
 - Identifies KPPs, Key System Attributes (KSAs)
 - Attributes should be Authoritative, Measurable and Testable
- **Capability Production Document (CPD) (Milestone C)**
 - Supports production and development of one increment
 - Documents authoritative, testable capabilities
 - Support Production, Testing, and Deployment

Requirements Decision Chain



JROC DECISION CHAIN



VCJCS

JROC Chairman; Advises the CJCS

JROC

Owens JCIDS; Validates JROC Interest documents; final authority

JCB

Validates JCB Interest documents; assists JROC

FCB

Reviews documents; prioritizes within portfolio; makes validation recommendation to JCB/JROC

FCB WG

Reviews documents & prioritizes prior to FCB review

JROC MEMBERSHIP

Chair: VCJCS

Council Members:

- **Vice Chief of Staff, Army**
- **Vice Chief of Naval Operations**
- **Vice Chief of Staff, Air Force**
- **Assistant Commandant of the Marine Corps**
- **Combatant Commands*** (Commander or Deputy Commander)

JROC: Joint Requirements Oversight Council
 JCB: Joint Capabilities Board
 FCB: Functional Capabilities Board
 FCB WG: Functional Capabilities Board Working Group

*Unless otherwise directed to participate by the JROC Chairman, CCMD representatives are highly encouraged to participate as voting members of the JROC when matters related to the area of responsibility or functions of that command will be under consideration by the JROC. USD(AT&L), Dir, CAPE, USD(Comptroller), DOT&E, and USD(Policy) attend as JROC advisors

Functional Capability Boards



C4/Cyber
(Covers C2 and
NC JCAs)

Battlespace
Awareness

Logistics

Force
Support

Protection

BG Polakowski
JS J-8

Force
Application

Additional JCAs:

- Building Partnerships
- Corporate Management & Support

FCB Membership: (O-6 level)

Services

Combatant Command Reps

OSD (AT&L)

OSD (I)

USecAF (Space)

DOD CIO

D/CAPE

DIA Rep (Threat)

ODNI/IRB

Other DoD Agencies as necessary

OSD(Comptroller)

The Joint Requirements Office for CBRN Defense



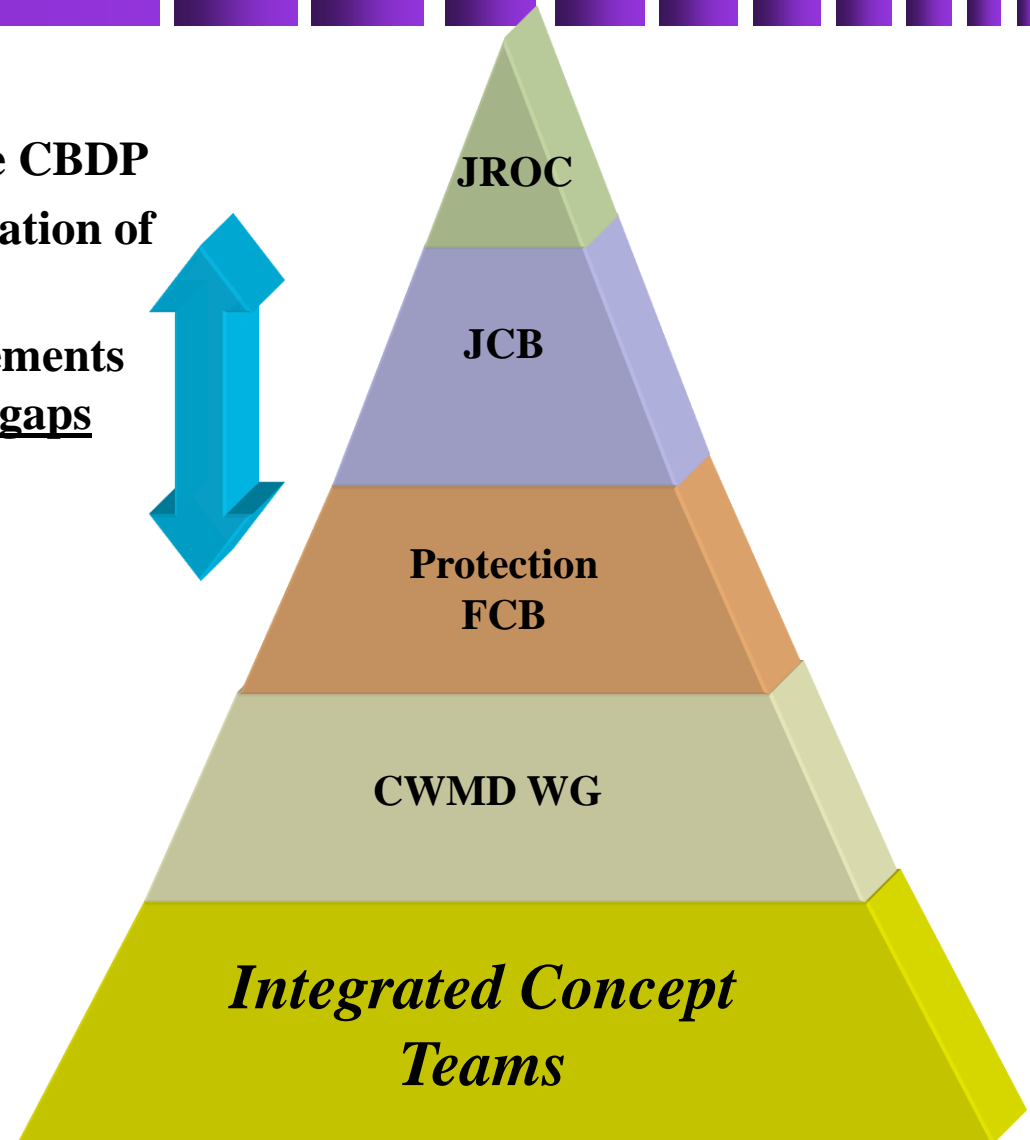
The DOD philosophy for joint CBRN defense development is centralized planning, conducted by the JRO-CBRN Defense in collaboration with the Services, combatant commands and Joint Staff.

The Director, JRO-CBRN Defense, is the focal point of CBRN expertise for the Chairman of the Joint Chiefs of Staff. The Director addresses all requirements generation and program analysis issues involving CBRN threats within passive defense, consequence management, force protection and homeland security, and collaborates with appropriate Joint Staff elements on CBRN defense policy, operational readiness, logistics and sustainment issues.



Integrated Concept Teams (ICTs)

- **CWMD ICTs are a subset of the CBDP**
- **Focal points for complete integration of CBRND programs in JCIDS**
- **Review and recommend requirements based on operational capability gaps**
- **Membership**
 - **JRO-CBRND**
 - **Service Cbt Developers**
 - **Service DT/OT Agencies**
 - **DTRA/JSTO**
 - **JPEO**
 - **PAIO**
 - **Combatant Commands**
- **Meet as needed**

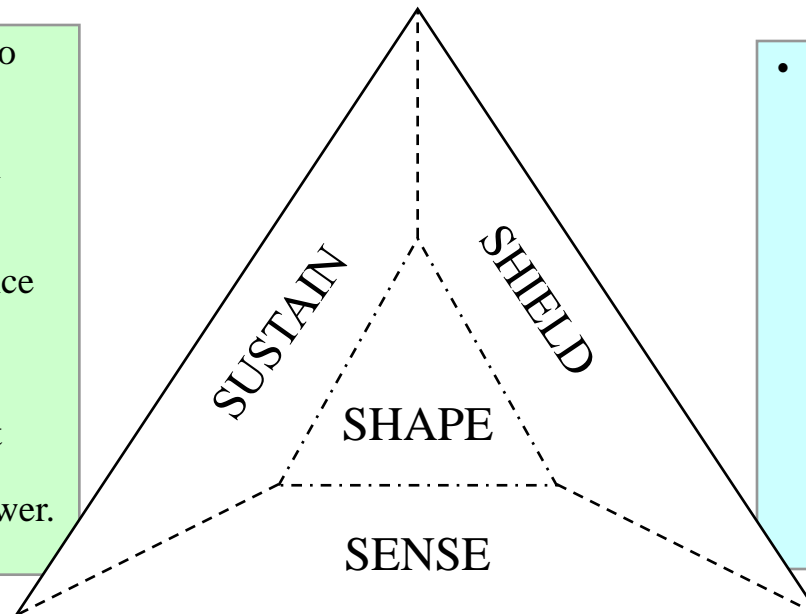




Joint CBRN Defense Functional Concept

- **SHAPE** – The capability to provide the joint force commander with the current and predicted CBRN situation; envisions critical contamination avoidance, protection, and restoration end states; and visualizes the sequence of events that moves the joint force from its current state to those end states. Shaping the battlespace accomplishes two important objectives: First, it allows forces to remain faster, more agile, more lethal, and more precise under CBRN hazard conditions; second, it protects the force.

- **SUSTAIN** – The capability to sustain the force operational element includes the decontamination/ restoration aspects of Passive Defense, post-exposure medical intervention, and Consequence Management/Civil Support activities. Decontamination, collective protection, and medical intervention support joint force sustainment by quickly restoring combat power.



- **SHIELD** – The capability to maintain high operating tempo while preventing or reducing casualties under CBRN hazard conditions by: reducing the threat, reducing operational vulnerability, and avoiding contamination. The joint force commander further shields his forces when necessary by providing physical protection and medical pre-treatment.

- **SENSE** – The capability to continually provide the information about the CBRN situation at a time and place by detecting, identifying, and quantifying CBRN hazards in air, water, on land, on personnel, equipment or facilities. This capability includes detecting, identifying, and quantifying those CBRN hazards in all physical states (solid, liquid, gas).



29 CBRND Core Capabilities Areas

Sense

Biological Point Detection
Biological Standoff Detection
CBRN Reconnaissance
Chemical Point Detection
Chemical Standoff Detection
Field Analytics
Medical Diagnostics
Radiological Point Detection
Radiological Standoff Detection

Shape

Operating Environment Analysis
Operating Environment Mgmt Systems
Integrated Early Warning
Medical Surveillance
Methods of Control

Shield

Biological Prophylaxis
Chemical Prophylaxis
Expeditionary Collective Protection
Fixed Site Collective Protection
Percutaneous Protection
Radiological Prophylaxis
Respiratory and Ocular Protection

Sustain

Biological Therapeutics
Chemical Therapeutics
Equipment Contamination Mitigation
Fixed Site Contamination Mitigation
Hazardous Waste Control
Personnel Contamination Mitigation
Radiological Therapeutics
Remains Disposition



- **The requirements process is just one piece of the Chemical-Biological Defense Program**
- **JCIDS is the specific decision-making process used to develop required capabilities**
 - Provides an enhanced methodology to identify and describe capabilities gaps and redundancies
 - Helps to prioritize capability proposals
 - Engages the acquisition community early
 - Improves the identification of non-material alternatives
 - Improves collaboration with other departments & agencies
- **JRO-CBRND represents the Services in the JCIDS process, and is the Joint Staff focal point for CBRN issues**

A continuously improving process