



# Joint Program Executive Office for Chemical and Biological Defense

## Collective Protection (ColPro) 2005

Monterey, CA  
June 21, 2005

**DOUGLAS W. BRYCE**  
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For Chemical and Biological Defense  
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# Overview

• **Who We Are**

• **What We Do**

• **Joint Warfighting Capabilities**



# Joint Program Executive Office for Chemical and Biological Defense

## Mission

***The Joint Program Executive Office for Chemical and Biological Defense is Responsible for Research, Development, Acquisition, Fielding, and Life-cycle Support of Chemical, Biological, Radiological, and Nuclear (CBRN) Defense Equipment, Medical Countermeasures, and Installation and Force Protection Supporting the National Military Strategy***



# Joint Service Chemical and Biological Defense Program

*JOINT REQUIREMENTS OFFICE*

*JOINT PROGRAM  
EXECUTIVE OFFICE*



*JOINT SCIENCE AND  
TECHNOLOGY OFFICE*

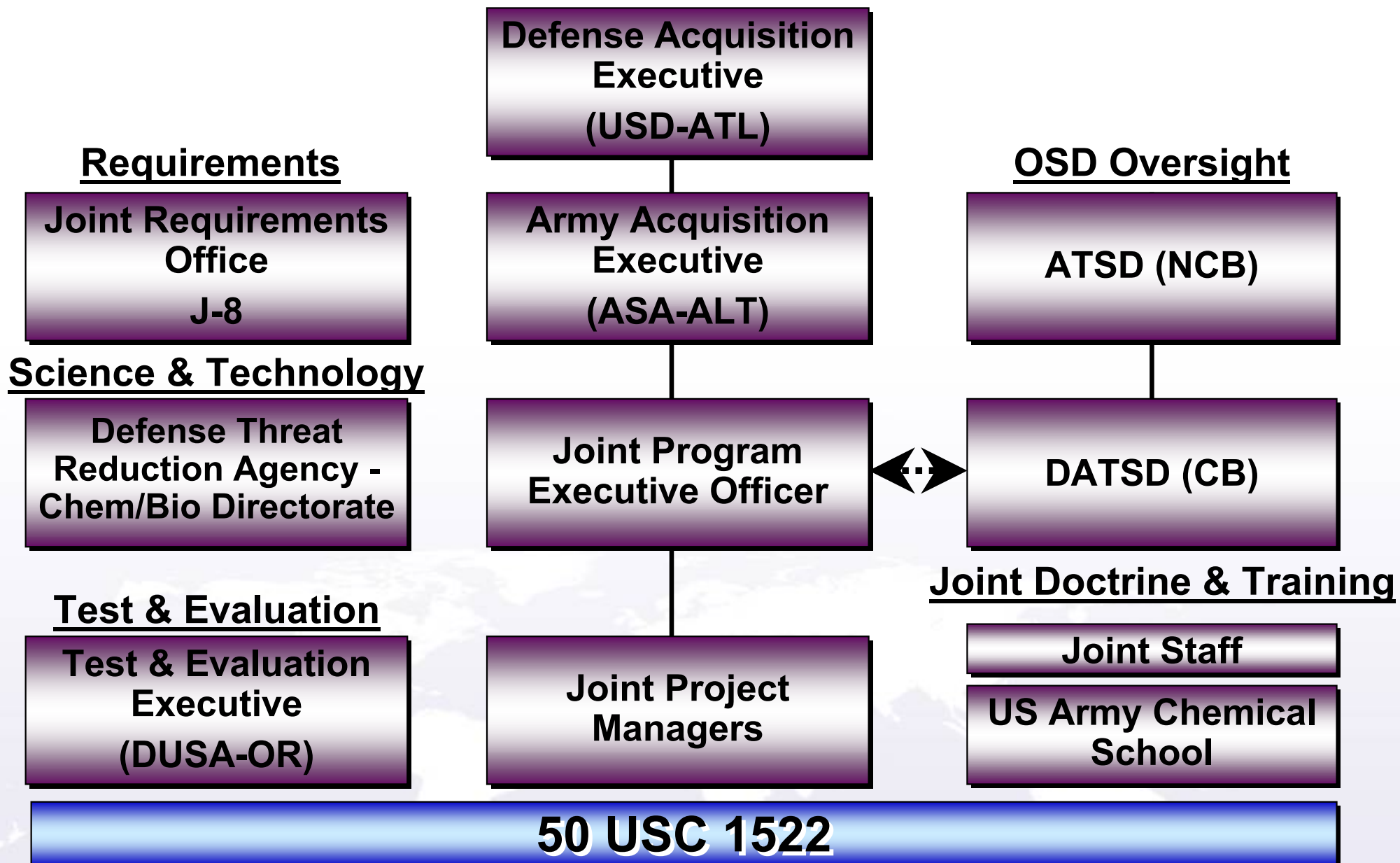
*JOINT TEST AND  
EVALUATION EXECUTIVE*

*JOINT COMBAT  
DEVELOPER*

*Delivering Joint Warfighting Capabilities*

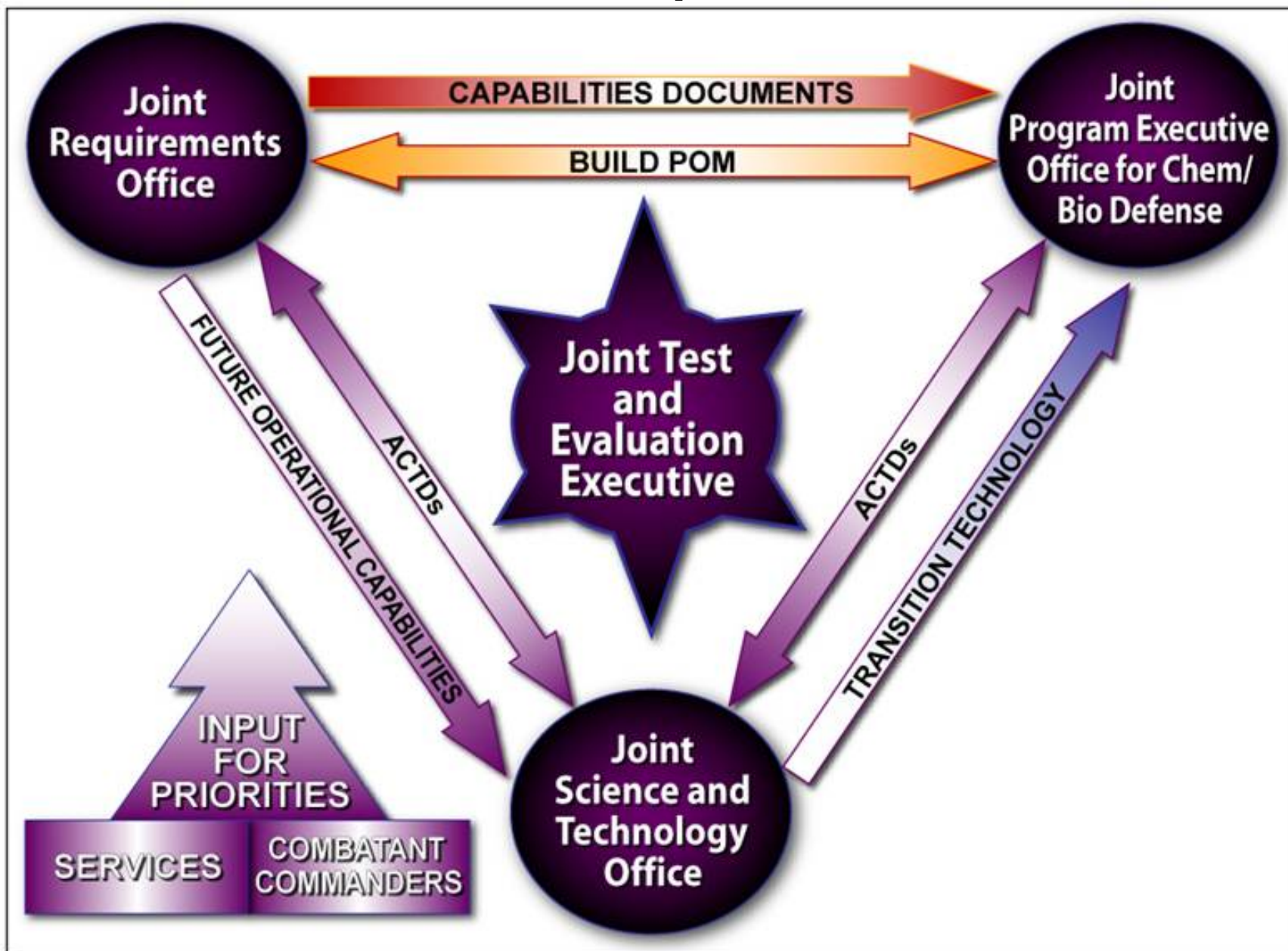


# Chem/ Bio Defense Program Acquisition Organizations





# Required Capabilities, Science & Technology, and Acquisition





# Joint Program Executive Office Areas of Responsibility

Vaccines

Treatments

Diagnostics

Chemical & Biological Agent Detection

Individual Protection

**Collective Protection**

Decontamination

Weapons of Mass Destruction – Civil Support

Installation/ Force Protection

Information  
Systems

**Total Life Cycle Management**



# System of Systems Approach to Counter the Threat

*Sustained Combat Power*

**CB Threats & Hazards**

Agent Delivery

Doses on Target

Downwind Dispersal

Doses Absorbed

Symptoms



Medical Pretreatment



Contamination Avoidance and NBC Battle Management (Detection, Identification, Reconnaissance & Warning)



Individual & **Collective Protection**



Installation Force Protection



Medical Treatment



Information Systems



Decontamination, Restoration







**Biological Defense**  
Edgewood, MD  
**Col DANIEL BERRY (USAF)**



**NBC Contamination Avoidance**  
Edgewood, MD  
**COL DON BURNETT (ARMY)**



**Chemical Biological Medical Systems**  
Frederick, MD  
**COL STEPHEN BERTÉ (ARMY)**



**Information Systems**  
San Diego, CA  
**CAPT TOM O'KEEFE (NAVY)**



**Collective Protection**  
Washington DC  
**MR STAN ENATSKY (NAVY)**

**JOINT PROGRAM EXECUTIVE OFFICER**

IN ACCORDANCE WITH DEPARTMENT OF DEFENSE EXECUTIVE ORDER 11811  
and  
MY APPOINTMENT, BY ORDER OF THE SECRETARY OF THE ARMY,  
as the  
**ARMY ACQUISITION EXECUTIVE**

I hereby designate  
**BG Stephen V. Reeves**  
as the Joint Program Executive Officer for  
**Chemical and Biological Defense**

As Joint Program Executive Officer, you will utilize the funds of Systems to ensure integration and interoperability as achieved between Army programs to support a full spectrum force.

You will, as the responsible management official, provide overall direction and guidance for the development, acquisition, testing, product improvement, and fielding, while ensuring total ownership cost reduction. You will establish processes that foster communication, cooperation, information exchange, and collective decision-making between and among organizations.

You will maintain the Army perspective in managing your programs and will report directly to me. You will keep the leadership fully advised of program status and report any matters that could affect the Army's ultimate commitment to the program. Your responsibilities include planning and executing the transition of programs and systems when appropriate.

You will place primary management emphasis and oversight on balancing cost, schedule, performance and responsibility while ensuring an acquisition reform initiative. You will also ensure compliance with applicable national policies to include environmental protection and socio-economic programs.

You will lead and directly control assigned program managers. You will ensure that acquisition workloads meet development and competency standards are actively promoted. You will also serve as an advocate to ensure the necessary force structure is in place to support acquisition reform development programs.

You are hereby delegated full line authority as the Joint Program Executive Officer for the management of assigned programs. Unless rescinded, this designation will remain in effect until your resignation.

*Stephen V. Reeves*  
Army Acquisition Executive



**Individual Protection**  
Quantico, VA  
**MR JIM NELSON (USMC)**



**Guardian**  
Falls Church, VA  
**COL CAMILLE NICHOLS (ARMY)**



**Decon**  
Quantico, VA  
**Lt Col DALE TAKENAKA (USAF)**

**JPMs Leverage Service/Installation Matrix Support**

**Joint Program Executive Office for Chem/Bio Defense**



# Joint Program Executive Office for Chemical and Biological Defense

- Army
- Navy
- Air Force
- Marines

DAE  
AAE

INTERNATIONAL AFFAIRS  
ASSISTANT JPEO MEDICAL SYSTEMS  
SOCOM LIASON

JPEO - CBD  
BG STEPHEN V. REEVES

MR. DOUG BRYCE

U.S. ARMY T&E LIAISON OFFICER  
SPECIAL ASSIST FOR SYSTEMS ACQ  
PENTAGON LIAISON/DASCs

## JPMs

## JPMs

<p>Bio-Detection Col DANIEL BERRY</p>	<p>Contamination Avoidance COL DON BURNETT</p>	<p>Collection Protection MR. STAN ENATSKY</p>	<p>Individual Protection MR. JIM NELSON</p>	<p>Decontamination Lt Col DALE TAKENAKA</p>	<p>CBMS COL STEVE BERTE'</p>	<p>Guardian COL CAMILLE NICHOLS</p>	<p>Information Systems CAPT TOM O'KEEFE</p>
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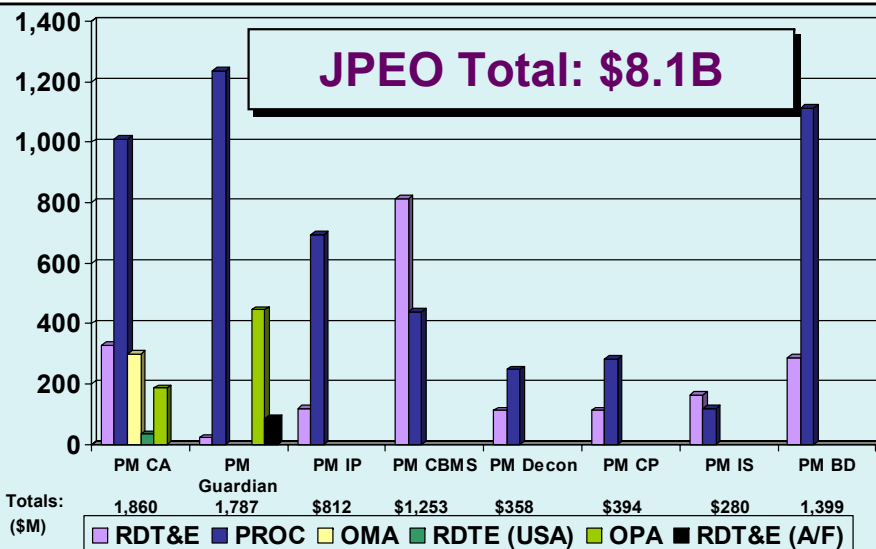
<p>Director, Business Mgmt MR. CHARLIE CUTSHALL</p>	<p>Director, Tech Integration DR. DAVE CULLIN</p>	<p>Director, Information Tech MRS. BRENDA BESORE</p>	<p>Director, Systems Acquisition MR. GARY OLEJNICZAK</p>	<p>Director, Mgmt Support MRS. SUSAN HUBBARD</p>	<p>Director, Systems Support MR. LARRY WAKEFIELD</p>	<p>Director, Human Resources MS. LINDA YECK</p>
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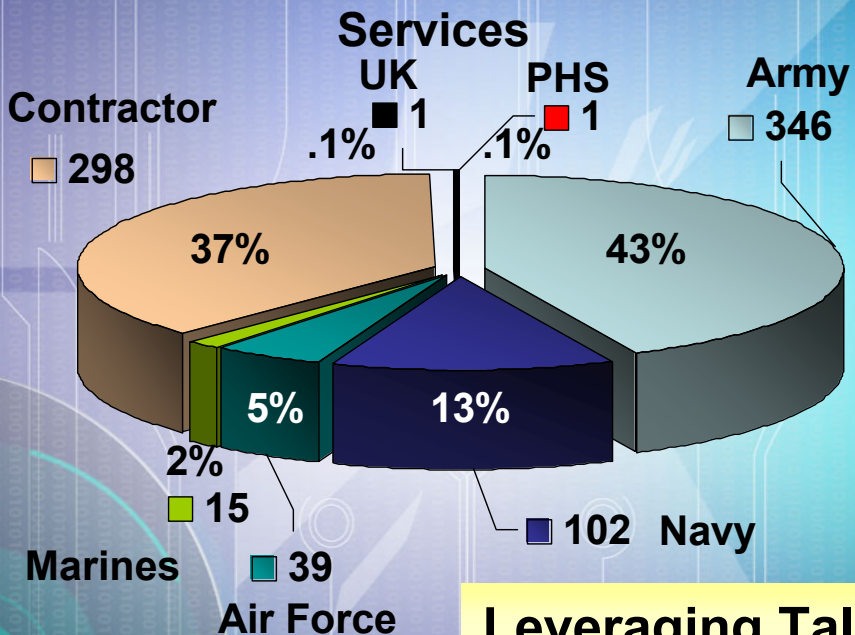
# A Joint Program Executive Office

## People

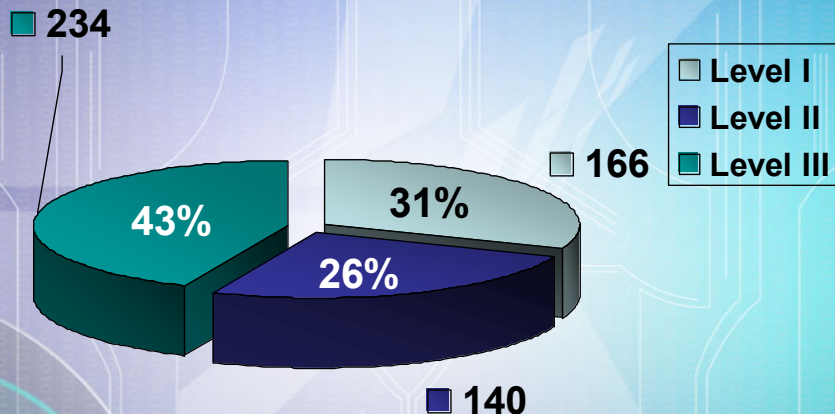
- 802 Personnel – All Services
  - 53 Officers
  - 4 NCO's
  - 447 DoD Civilians
  - 298 Contract Support
  - 1 Public Health Service
  - 1 UK LNO (Royal Navy)



## PERSONNEL



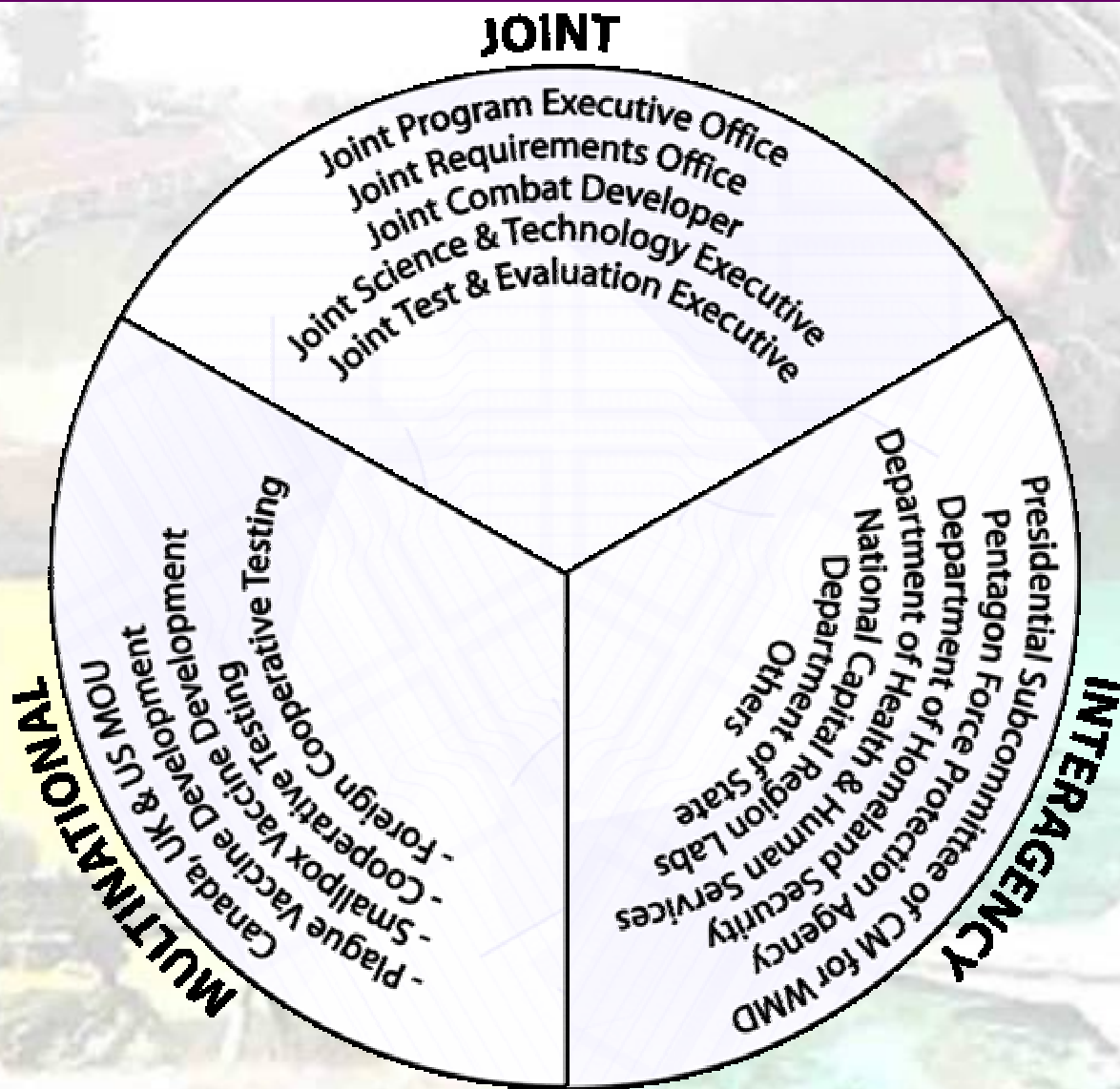
## Acquisition Level Certified



**Leveraging Talents From Each Service**

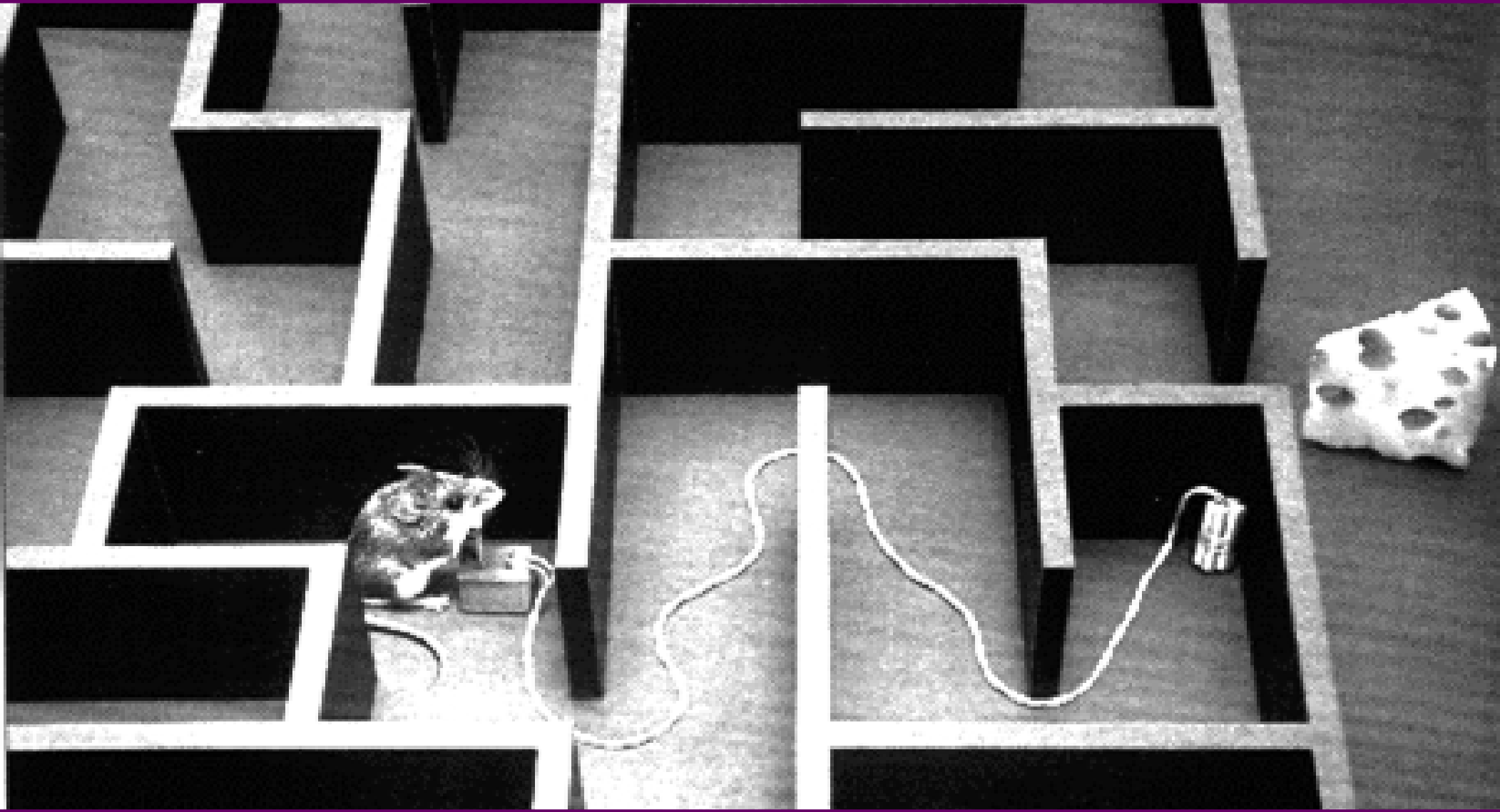


# Joint – Interagency – Multinational Responsibilities





# Leaders Who Can Work the Process



**... and Field Systems**



# Delivering Capabilities with Excellence

## Joint Biological Point Detection System (JBPDS)



**2002 Packard Award**

## Decontamination Systems

### Falcon Decontamination System



### Reactive Skin Decontamination Lotion (RSDL)



**2003 Packard Award**



# Accelerating Technology Transition Operation Iraqi Freedom New Capabilities

**FALCON  
Terrain Decon**



**FOX TICs Data Chip**



**Chemical Biological  
Protective Shelter  
(CBPS)**



**Special Purpose  
Automatic Chemical  
Agent Alarm (ACADA)**

**Navy Bio Detector**



**Toxic Industrial  
Chemical Detector  
Sets**



**500+ Special  
Fit Protective  
Masks**



**1600+ Special  
Fit Protective  
Suits**



**Decontamination  
System (Karcher)**



**Dry Filter Unit  
2000 (DFU)**



**Chemically Protected  
Deployable Medical  
System (CP DEPMEDS)**



**Antidote Treatment  
Nerve Agent  
Autoinjector (ATNAA)**



**Skin Exposure  
Reduction Past Against  
Chemical Warfare  
Agents (SERPACWA)**



**M40 Mask  
Voicemitter**



# The Bottom Line – Return on Investment



**Delivering Warfighting Capability**  
*(Best Technology - Right Place and Time)*







# Major FY04 Fieldings

- Biological Integrated Detection System (BIDS)**
- Joint Biological Point Detection System (JBPDS)**
- Joint Portal Shield (JPS)**
- Joint Warning and Reporting Network (JWARN)**
- Anthrax Vaccine Adsorbed (AVA)**
- Joint Service Mask Leakage Tester (JSMLT)**
- Joint Service Lightweight Integrated Suit Technology – Glove**
- Aircrew Eye/ Respiratory Protection System (AERP)**
- Chemically Protected Deployable Medical System (CP DEPMEDS)**
- Chemical Biological Protection Shelter (CBPS)**
- Sorbent Decontamination System (SDS)**
- Multi Purpose Decontamination System (MPDS)**





# Delivering New Warfighting Capabilities

- **Last Seven Years:**
  - Twenty-seven (27) New Chem/ Bio Defense Systems
  - Over 3 Million Pieces of Individual Equipment
- **FY 03:**
  - Twenty-three (23) Chem/ Bio Defense Systems
  - One (1) Retrofit
- **FY 04:**
  - Thirty-four (34) Chem/ Bio Defense Fieldings
  - One (1) Retrofit
  - **System Procurements for Urgent Needs Statements (UNS) and the Senior Requirements Oversight Council (SROC)**



# Life Cycle Management: RESET

## RESET: Equipment Deployed in OEF/ OIF Identified as Requiring Depot/ Contractor Repair

- Leveraging Service O&M
- Coordinating Required Contractor Support
- Synchronizing Repairs With MWO's and Technology Insertion

### Example Systems:

- M17/ M12 Decon Apparatus
- M21 Remote Standoff Chemical Agent Alarm
- M22 Automatic Chemical Agent Detector and Alarm
- FOX NBC Reconnaissance Vehicle
- **Chemical Biological Protective Shelter**



# Summary

- **Aligned, Planned and Resourced to Achieve Jointness**
- **Integrated Strategy, Organizations, People, Processes, Technology and Programs**
- **Metrics, Measures and Processes for Execution and Accountability**
- **Focused On Outcomes**

**Delivering Joint  
Warfighting Capabilities**



# The Reason for Our Success...



... Our People

**The BEST Technology and Equipment**

**At the RIGHT PLACE**

**At the RIGHT TIME**

**At the RIGHT COST**

**Mr. Douglas Bryce**

<http://www.jpeocbd.osd.mil>

**JPEO-CBD**

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5203 Leesburg Pike, Falls Church, VA 22041



# BACKUPS



# Acronyms

## A

**AAS** – Advanced Anticonvulsant System

**ACADA** – Automatic Chemical Agent Alarm

**ACD&P** – Advanced Component Development & Prototypes

**ACT Top Skin Pro** – Active Topical Skin Protectant

**ACTD** – Advanced Concept Technology Demonstration

**ADV Anticon** – Advance Anticonvulsant

**AERP** – Air Crew Respiratory Protection

**AFMIC** – Air Force Medical Intelligence Center

**ALS** – Analytical Laboratory System

**Antidote TRT** – Antidote Treatment

**AoA** – Analysis of Alternatives

**APB** – Acquisition Program Baseline

**ASR** – Acquisition Status Reports

**ATD** – Advanced Technology Demonstration

**ATSD(NCB)** – Assistant to the Secretary of Defense for Nuclear Chemical and Biological Defense Programs

**AVA** – Anthrax Vaccine Adsorbed

**A/P-22P Mask, MC** –

**ATNAA** – Antidote Treatment, Nerve Agent Auto-Injector





# Acronyms

## B

- BD** – Biological Defense
- BES** – Budget Estimate Submission
- BIDS** – Biological Integrated Detection System
- BW** – Biological Warfare

## C

- C4I** – Command, Control, Communications, Computers and Intelligence
- CAM/ICAM** – Improved Chemical Agent Monitor
- CANUKUS** – Canada, United Kingdom, and United States
- CASPOD** – Contamination Avoidance at Sea Ports of Debarkation
- CB** – Chemical/ Biological
- CB Mass Spec** – Chemical Biological Mass Spectrometer
- CBDP** – Chemical Biological Defense Program
- CBMS** – Chemical/ Biological Mass Spectrometer
- CBPS** – Chemical Biological Protective Shelter
- CBRN** – Chemical, Biological, Radiological, and Nuclear
- CBRS** – Chemical, Biological Respiratory System
- CBW** – Chemical/ Biological Warfare or Chemical/ Biological Weapons
- CIA** – Central Intelligence Agency
- CINC** – Commander in Chief
- CMO** – Central MASINT Office
- COMPIO** – Consequent Management Program Integration Office
- CPA** – Certified Public Account



# Acronyms

## C

- C4I** – Command, Control, Communication, Computer Intelligence
- CP DEPMEDS** – Chemically Protected Deployable Medical System
- CPS** – Collective Protection System
- CPSBKFT** – Collective Protection System Backfit
- CRP** – Critical Reagents Program
- CSTs** – Civil Support Teams
- CW** – Chemical Warfare
- CWA** – Chemical Warfare Agent

## D

- DARPA** – Defense Advanced Research Projects Agency
- DAE** – Defense Acquisition Executive
- DATSD(CBD)** – Deputy Assistant Sec of Defense (Chemical/Biological Defense)
- DDR&E** – Deputy Director Research & Engineering
- DEPMEDS** – Deployable Medical Shelters
- DFAS** – Defense Finance and Accounting Service
- DFU** – Dry Filter Unit
- DHS** – Department of Homeland Security
- DHHS** – Department of Health and Human Services
- DIA** – Defense Intelligence Agency
- DoD** – Department of Defense



# Acronyms

## D

**DoDD** – Department of Defense Directive

**DoDI** – Department of Defense Instruction

**DOT&E** – Director, Operational Test and Evaluation

**DPG** – Defense Planning Guidance

**DS2** – Decontamination Solution Number 2

**DSB** – Defense Science Board

**DT** – Development Test

**DTO** – Defense Technology Objective

**DTRA** – Defense Threat Reduction Agency

**DTRA-TRAC** – DTRA - Threat Reduction Advisory Council

## E

**EOD** – Explosive Ordnance Disposal

## F

**FBI** – Federal Bureau of Investigation

**FDA** – Food and Drug Administration

**FEA** – Front End Analysis

**FGA** – Fourth Generation Agents

**FOT&E** – Follow-on Test & Evaluation

**FP** – Force Protection



# Acronyms

## G

**GCCS** – Global Command and Control System

**GOCO** – Government Owned Contractor Operated

**GPRA** – Government Performance Results Act

## H

**HAC** – House Appropriations Committee

**HASC** – House Armed Services Committee

**HD** – Mustard Agent

**HLS** – Homeland Security

**HMMWV** – High Mobility Multipurpose Wheeled Vehicle

**HQ** – Headquarters

**H/W** – Hardware

## I

**IBAD** – Interim Biological Agent Detector

**ICAM** – Improved Chemical Agent Monitor

**INATS** – Improved Nerve Agent Treatment System

**IOT&E** – Initial Operational Test & Evaluation

**IPDS** – Improved Point Detection System

**IPM** – Improved Protective Mask

**IST** – Information Systems Technology



# Acronyms

## J

**JBAIDS** – Joint Biological Agent Identification and Diagnostic System

**JBPDS** – Joint Biological Point Detection System

**JBREWS** – Joint Biological Remote Early Warning System

**JBSDS** – Joint Biological Standoff Detection System

**JCAD** – Joint Chemical Agent Detector

**JCBAWM** – Joint Chemical/Biological Agent Water Monitor

**JCESM** – Joint Chemical Environmental Survivability Mask

**JCPE** – Joint Collective Protective Equipment

**JEM** – Joint Effects Model

**JFOC** – Joint Future Operational Capabilities

**JMDSS** – Joint Military Decision Support System

**JNBCDB** – Joint NBC Defense Board

**JOEF** – Joint Operations Effects Federation

**JPACE** – Joint Protective Aircrew Ensemble

**JPEO** – Joint Program Executive Office

**JPEO-CBD** – Joint Program Executive Office-Chemical and Biological Defense

**JPM** – Joint Project Manager

**JRO** – Joint Requirements Office

**JSAM** – Joint Service Aircrew Mask

**JSCESM** – Joint Service Chemical Environmental Survivability Mask

**JSFDS** – Joint Service Family of Decontamination System

**JSGPM** – Joint Service General Purpose Mask

**JSIG** – Joint Service Integration Group



# Acronyms

## J

**JSLIST** – Joint Service Lightweight Integrated Suit Technology

**JSLNBCRS** – Joint Service Lightweight Nuclear, Biological, Chemical Reconnaissance System

**JSLSCAD** – Joint Service Light Standoff Chemical Agent Detection

**JSMLT** – Joint Service Mask Leakage Tester

**JSM-PDS** – Joint Service Man-Portable Decontamination System

**JSPDS** – Joint Service Personnel/Skin Decontamination System

**JSSDS** – Joint Service Sensitive Decontamination System

**JSSSED** – Joint Service Sensitive Equipment Decontamination

**JSTDS** – Joint Services Transportable Decontamination System

**JTCOPS** – Joint Transportable Collective Protection System

**JVAP** – Joint Vaccine Acquisition Program

**JWARN** – Joint Warning and Reporting System

**JWCA** – Joint Warfighting Capability Assessment

## L

**LAV** – Lightweight Amphibious Vehicle

**LDS** – Lightweight Decontamination System

**LIDAR** – Light Detection and Ranging

**LNBCRS** – Lightweight Nuclear Biological Chemical Reconnaissance System

**LRBSDS** – Long Range Biological Standoff Detection System

**LRIP** – Low-Rate Initial Production



# Acronyms

## M

**M93/M93AI FOX** – Reconnaissance System

**MDA** – Milestone Decision Authority

**MDS** – Modular Decontamination System

**MICAS** – Mobility Inventory Control Accountability System

**MILCON** – Military Construction

**MOA** – Memorandum of Agreement

**MPS** – Multipurpose Suit

**MS** – Milestone

**M&S** – Modeling & Simulation

## N

**NAIC** – National Air Intelligence Center

**NAPP** – Nerve Agent Pyridostigmine Pre-treatment

**NATO** – North Atlantic Treaty Organization

**NBC** – Nuclear, Biological and Chemical

**NBCRS** – Nuclear, Biological, Chemical Reconnaissance System

**NBCRV** – Nuclear, Biological, Chemical Reconnaissance Vehicle

**NDA** – Non-Disclosure Agreement

**NGIC** – National Ground Intelligence Center

**NIAD** – National Institute for Allergies and infections Diseases

**NSA** – National Security Agency



# Acronyms

## O

- O&M** - Operations & Maintenance
- OA** - Operational Assessment
- OGI** - Overguidance Issue
- OIPT** - Overarching Integrated Product Team
- ONI** - Office of Naval Intelligence
- OSD** - Office of the Secretary of Defense
- OT** - Operational Test

## P

- P3I** - Pre-Planned Product Improvement
- PA&E** - Program Analysis & Evaluation
- PAIO** - Program Analysis and Integration Office
- PBAS** - Portable Biological Aerosol Sampler
- PATS** - Protective Assessment Test System
- PB** - Pyridostigmine Bromide
- PBD** - Program Budget Decision
- PL** - Public Law
- POM** - Program Objective Memorandum
- PPBES** - Programming, Budgeting and Execution
- PQT** - Product Qualification Test

## Q

- QDR** - Quadrennial Defense Review





# Acronyms

## R

**RADIACs** – Radiation Detection, Indication and Computation

**R&D** – Research & Development

**RDT&E** – Research, Development, Test and Evaluation

**RESTOPS** – Restoration of Operations

**RFP** – Request for Proposals

**RSCAAL** – Remote Standoff Chemical Agent Alarm

**RSDL** – Reactive Skin Decontamination Lotion

## S

**S&T** – Science & Technology

**SAC** – Senate Appropriations Committee

**SACPS** – Selected Area Collective Protection System

**SALAD** – Shipboard Automatic Liquid Agent Detector

**SASC** – Senate Armed Services Committee

**SCPE** – Shipboard Collective Protection Equipment

**SDD** – System Development and Demonstration

**SERPACWA** – Skin Exposure Reduction Paste Against Chemical Warfare Agents

**SNAPP** – Soman Nerve Agent Pretreatment, Pyridostigmine

**SOP** – Standard/Standing Operating Procedure

**SORBDECON** – Sorbent Decontamination System

**STARs** – System Threat Assessment Reports

**STB** – Super Tropical Bleach

**Stryker NBCRV** – Stryer Nuclear, Biological, Chemical Reconnaissance Vehicle

**S/W** – Software



# Acronyms

## T

**TCPS/M28CPS** – Transportable Collective Protection Shelter

**T&E** – Test and Evaluation

**TEMP** – Test & Evaluation Master Plan

**TIC** – Toxic Industrial Chemical

**TIM** – Toxic Industrial Material

**TOA** – Total Obligation Authority

**TRA** – Technology Readiness Assessment

**TRL** – Technology Readiness Level

**TRE** – Technology Readiness Evaluation

**TSC** – Training System Capabilities

## U

**USAMRIID** – United States Army Research Institute of Infectious Diseases

**UCS** – Unified Command Suit

**USD(AT&L)** – Under Secretary of Defense (Acquisition Technology & Logistics)

## V

**VEE** – Venezuelan Equine Encephalitis

**VPS** – Virtual Proto-typing System

## W

**WMD-CST** – Weapons of Mass Destruction- Civil Support Team