



Overview

- Approach
 - Revolutionary not Evolutionary
 - Early Involvement
 - Empowerment
- Process Activities
 - Training
 - Test Resources Support
 - JEAP Liaison
 - Validation
- Test Activities
 - Test Architecture
 - Next Generation Tools





Revolutionary vs Evolutionary

- JPMO-IP looking toward the future
- Engineering (S&T) working in unison with T&E to locate the next generation ensembles
 - Dedicated CAPO at DTRA
 - Thrust Manager assigned to and working in the JPM-IP Office
 - Technology Transition Agreements
- New Technologies
 - Academia
 - Industry
 - Government











Early Involvement

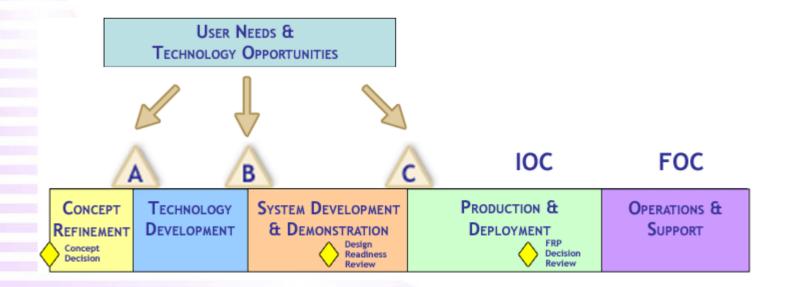
Requirements

- Must involve all stakeholders; Joint Requirements Office, Combat Developers, OTA'S, Material Developers, DOT&E (if applicable)
- Must be Testable, Measurable, Achievable, Meet the needs of the Warfighter
- Common Mistakes
 - Tie new technology to old
 - Don't take advantage of emerging technology because it does not match existing OMS/MP and COE
- Examples
 - JSMLT: System failed all 3 KPPs but identified 95.5% of faulty Masks in the field
 - JB2GU: 480 hour wear requirement



Early Involvement

- T&E Strategy
 - Develop T&E Strategy during Concept Refinement phase
 - Establish T&E WIPT as soon as material need is identified (before acquisition activities begin.)
 - Manage T&E Process "end to end" ensuring test, methodology, and
 M&S efforts fully assess the system.





Empowerment

What happens without empowerment?....Nothing

- "With regard to T&E issue resolution, each CBDP system T&E
 WIPT will resolve as many issues and concerns as possible at the
 working level and expeditiously escalate those needing resolution
 at a higher level." CBDP T&E Executive
- IPTs must consist of empowered members; common stumbling blocks include:
 - Representatives not empowered to speak for parent organization
 - Terms of agreements changed afterward
 - No timely follow-up on actions so no resolution before next IPT meeting



JPM-IP T&E Training

GOAL = Prepare JPM-IP Test Engineers to Become Leaders in the T&E Community

- DAU provides Targeted Training, Consulting, Mentoring
 - MCOTEA, OSD and JPEO-CBD Participation
 - Instructors benefit from student feedback and from observing project team meetings
 - Training briefs and reference materials archived on IDE
- Participation in OTA training
 - Gain understanding of each OTA's perspective and operating procedures
- AWCF certification and continuous learning emphasized



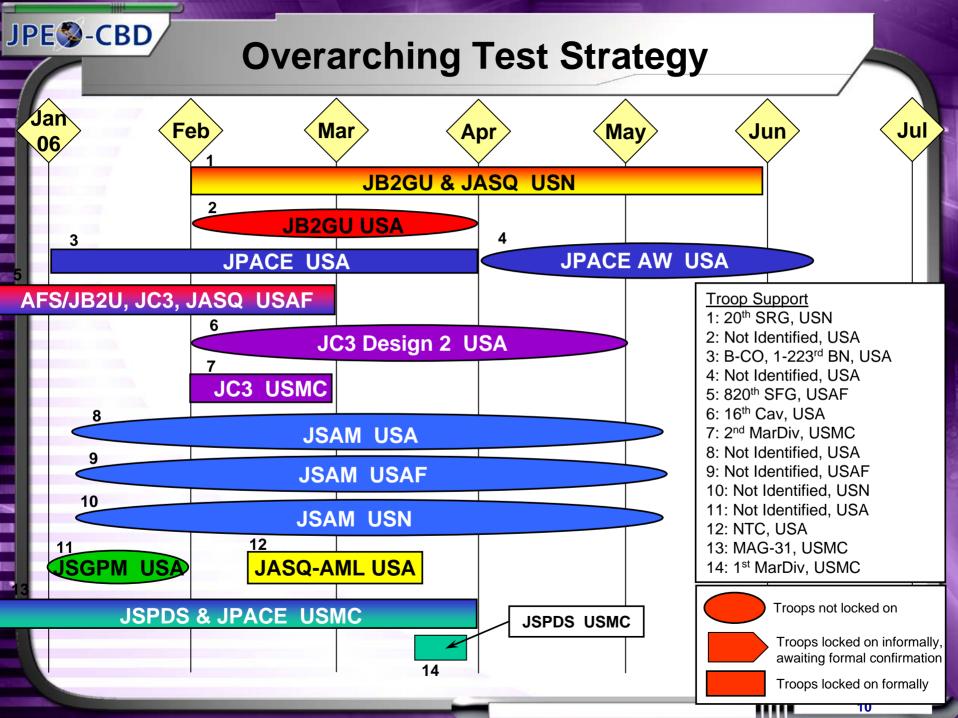
Cross-functional Training

- Current Developmental Assignments
 - ECBC Intern
 - Scientist exchange with DPG
 - Test Engineer exchange with AEC
- Goals
 - Provide unique OJT for recent hires at ECBC
 - Gain understanding of other T&E roles in acquisition process
 - Foster better working relationships



Test Resources Support

- Obtain test participants, equipment, ammo, ranges and all services necessary to support testing
- Work within Service processes for obtaining troop support
- Assist Services in identifying potential units for support
- Seek alternative sources for test participants when necessary
 - Coast Guard
 - Schoolhouses
 - Training Centers
 - Combine programs when possible to maximize benefit of support
 - JPACE, IFS, JB2GU
 - JASQ Unique, JSPDS
- Be prepared for changes and have back-ups identified
 - High optempo with OIF, OEF and relief efforts



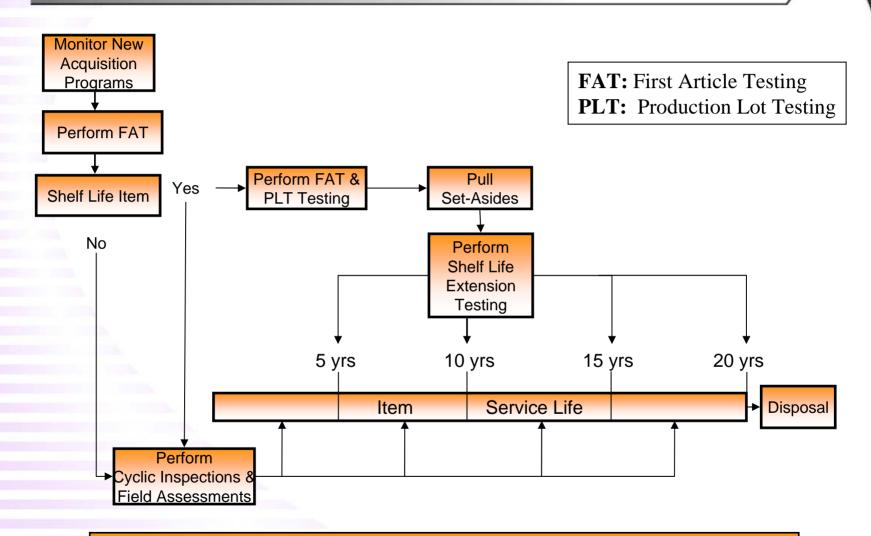


JEAP Liaison

- Transition of Acquisition Efforts
 - Work closely with Joint Equipment Assement Program (JEAP) organization, labs, logistics community
 - Production Lot Testing
 - Traceability
 - Acquisition Coordinate surveillance requirements
 - Surveillance Cradle to Grave accountability
 - Involve DPG exchange scientist
 - Requirements/Logistics coordination
 - Incorporating logistics traceability during the Combat Developers documentation process



Surveillance Process "Cradle to Grave"



Periods vary depending on the equipment type and assigned Shelf Life Code



Test Method Validation

- Objective
 - Valid data to make sound milestone decisions
 - Intralab and Interlab Validation
- Structure
 - Chair Test Director JPM-IP
 - WGTMVC, OTMVC
 - Full community and SME involvement
- Examples
 - MIST
 - SMARTMAN
 - PATIC









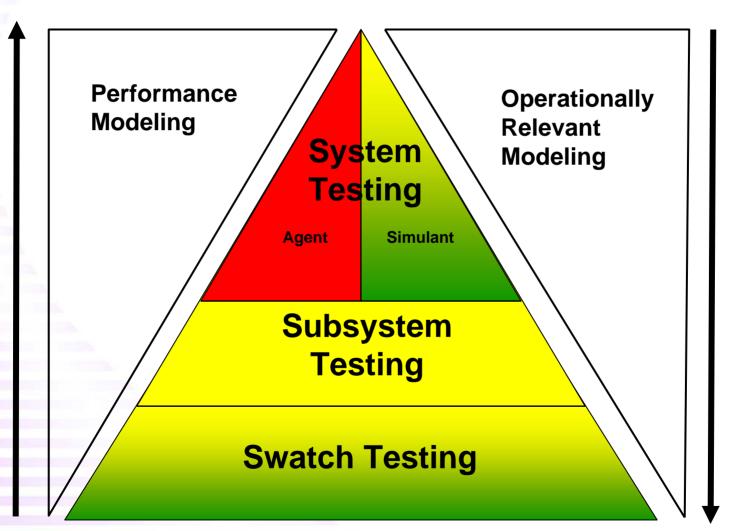




Test Architecture

Number of Candidates

Cost per Test



BERRE.



Next Generation Tools

- Overarching Model
- CBART
- Improved Aerosol
- PETS
- Real-time sampler for MIST
- NTA Chamber



Backups

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Acronym List

AEC – Army Evaluation Center

AWCF - Acquisition Workforce Career Field

CAPO – Capability Area Program Officer

CBART – Chemical Biological Agent Resistant Test

CBDP – Chemical and Biological Defense Program

COE – Concept of Employment

DAU – Defense Acquisition University

DOT&E – Director, Operational Test and Evaluation

DPG – Dugway Proving Ground

DTRA – Defense Threat Reduction Agency

ECBC – Edgewood Chemical Biological Center

FAT – First Article Test

IDE – Integrated Data Environment

IFS – Integrated Footware Solution

IPT – Integrated Process Team

JASQ – JSLIST Alternate Source Qualification

JB2GU – JSLIST Block 2 Glove Upgrade

JEAP – Joint Equipment Assessment Program

JPACE – Joint Protective Air Crew Ensemble

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

JPMO-IP – Joint Program Management Office for Individual Protection

JSLIST – Joint Service Lightweight Integrated Suit Technology

JSMLT – Joint Service Mask Leakage Tester

JSPDS – Joint Service Personnel Decon System

M&S – Modeling and Simulation



Acronym List (cont)

MIST - Man In Simulant Test

MCOTEA – Marine Corps Operational Test and Evaluation Agency

OEF – Operation Enduring Freedom

OIF – Operation Iraqi Freedom

OJT – On the Job Training

OMS/MP – Operational Mode Summary/Mission Profile

OSD - Office of the Secretary of Defense

OTA – Operational Test Agency

OTMVC – Overarching Test Methods Validation Committee

PATIC – Protection Against Toxic Industrial Chemicals

PETS – Protective Ensemble Test System

PLT – Production Lot Test

S&T – Science and Technology

SMARTMAN – Simulant Agent Resistant Test Mannequin

SME – Subject Matter Expert

T&E - Test and Evaluation

TTA – Technology Transition Agreement

WGTMVC – Working Group Test Methods Validation Committee

WIPT - Working Level IPT