Reducing the Logistics Burden for Individual and Collective Protection

Joint Project Manager for Individual Protection and Collective Protection Industry Day

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PURPOSE

• To discuss logistics issues associated with individual respiratory and collective protection through...

• Identifying Current Issues
• Considering Future Technology Sustainment
• Exploring Sustainment Trade-offs
• Reducing the Logistics Footprint
• Optimizing the Industrial Base
CURRENT STATE

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Unclassified
WHAT’S CHANGED?
CURRENT IP ISSUES

• Shelf Life…variable based on testing
• Wear Time…subjective based on environment
• Packaging, Marking, Asset Visibility
• Unique filters for unique threats
• Production
  – Quality
  – Sustainment/preservation

*Increased Logistics Footprint*
WHAT’S CHANGED?
CURRENT COLPRO ISSUES

• Shelf Life Extension
  – Cost of test to extend
  – Cost of items consumed in testing
  – Small lots not economical to test

• Filter Life
  – Differences in Concept of Operations precipitates different change-out criteria
  – Residual Life influenced by environment
• Performance Specifications
  – Filters are transitioning to performance specifications
  – Opportunities to improve on legacy designs in packaging, marking, and transportation

• Performance Based Logistics
  – Business Case Analysis to be conducted within...
    • Chemically & Biologically Protective Shelter Program
    • Joint Expeditionary Collective Protection Program
    • Legacy Systems
  – Provide the optimal mix of Organic and Contractor support
FUTURE TECHNOLOGIES
DESIRE AND CONCERNS

Desires
- Serviceability Indicators…Residual Life
- Reduction or elimination of special use filters
- Low cost durable packaging…package for recovery

Concerns
- Positive pressure…reliability & maintainability
- Integration issues…soldier as a system
- Power source…stand alone or integrated
- Disposal of new filter media
- Increase in logistics footprint
NEW TECHNOLOGY SUSTAINMENT

- New technologies will require new logistics support strategies
- Passive filtration technologies can draw on Individual Protection sustainment expertise with similar technologies
- Maintenance focused logistics vs. consumable item management
- Reusable filtration technologies may require trade-offs to sustainment support
SUSTAINMENT TRADE-OFFS

• Tradeoffs are usually focused between logistics and performance... what trade-offs exist WITHIN logistics to provide the best support to the warfighter?

• Modular Sustainment vs. Residual Life Indicators
  – Fixed change-out criteria
  – Change-out criteria based on indicators

• Shelf Life Testing vs. Disposal
  – Longer, non-renewable shelf life
  – Shorter, renewable shelf life

• Useful Life vs. Shelf Life
  – Balancing the investment to withstand field conditions with the ability to withstand storage
REDUCTION IN FOOTPRINT

- Small Changes have large effects.

- Large Issues have small solutions.
INDUSTRIAL BASE

• Survivable
  – Creating an industrial base that functions during wartime and peacetime.

• Responsive
  – Minimize impact to the warfighter in large scale conflicts and small scale contingencies

• Sustainable
  – Mitigating single points of failure through public-private partnerships.
FUTURE STATE

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CONCLUSION

• Current Logistics issues are not new

• Future technologies can address many of our current issues; however they present new logistics issues that will require new sustainment strategies

• Sustainment Trade-off Analysis provides valuable insight into the relationship of logistics elements associated with a given technology and allows for a balanced, best value sustainment strategy

• A survivable, responsive and sustainable Industrial base is critical in sustaining future technologies

• COLPRO and IP are exploring opportunities for collaboration on integrating new technologies
QUESTIONS?