

Ogden Air Logistics Center



Winds of Change

Feb 8, 2006

Major General Kevin Sullivan
OO-ALC/CC



Overview



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- Introduction
- Quality -- Medium Caliber Ammo – “The Bad Boy”
- Industrial Base
- Winds of Change
- Summary





Introduction

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- **Sustainment – from IOC to the grave**
 - **Maintain – it breaks, we fix it**
 - **Restock – it gets used up, we buy more**
 - **Distribute – get it to wherever & whenever needed**
 - **Work Problems – Too much effort in this area**

- **Reactive vice active sustainment**



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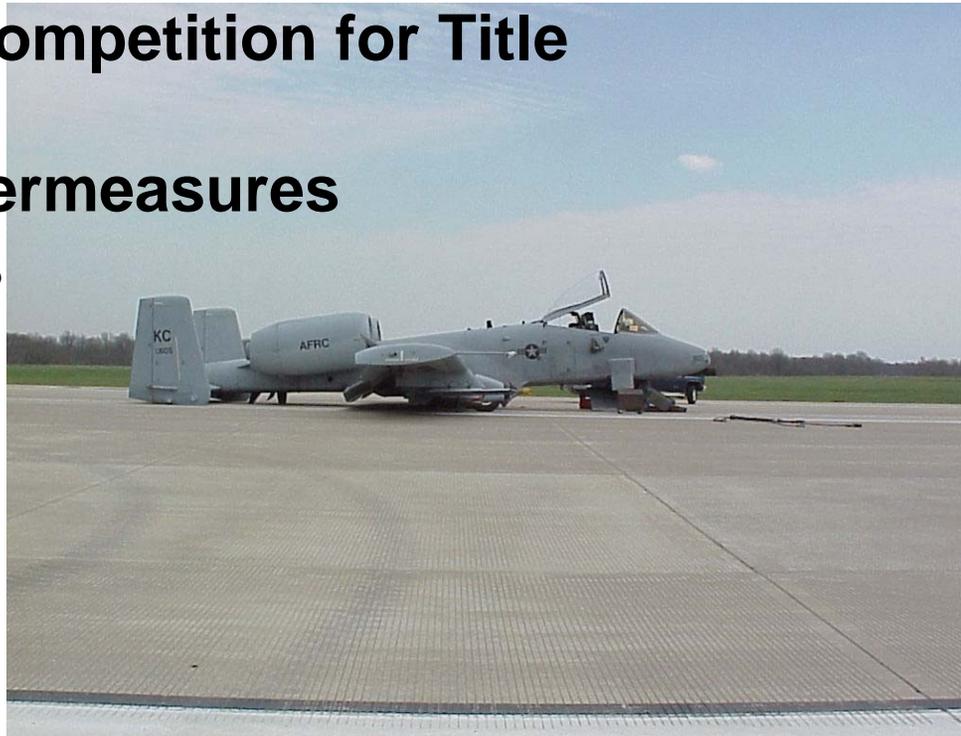


Medium Caliber Ammunition “The Bad Boy”



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- Med Cal - a history of problems
- Lots of Competition for Title
 - Fuzes
 - Countermeasures
 - Others



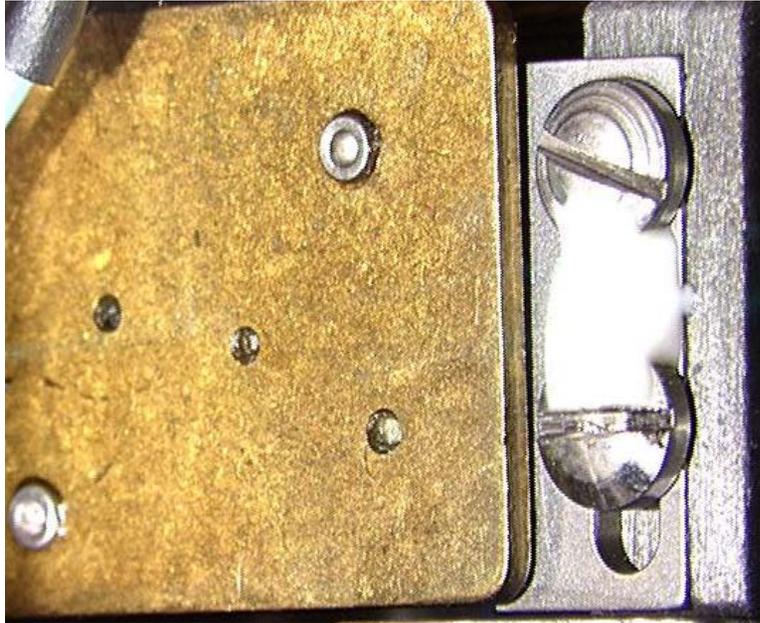
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Fuze Safety Device Defect



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**Correctly applied
epoxy on set
screws**



**No epoxy on set
screws – fuze
failed critical
safety
requirement**



FZU-55 A/B Lanyard Defect



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Improper Routing of Lanyard

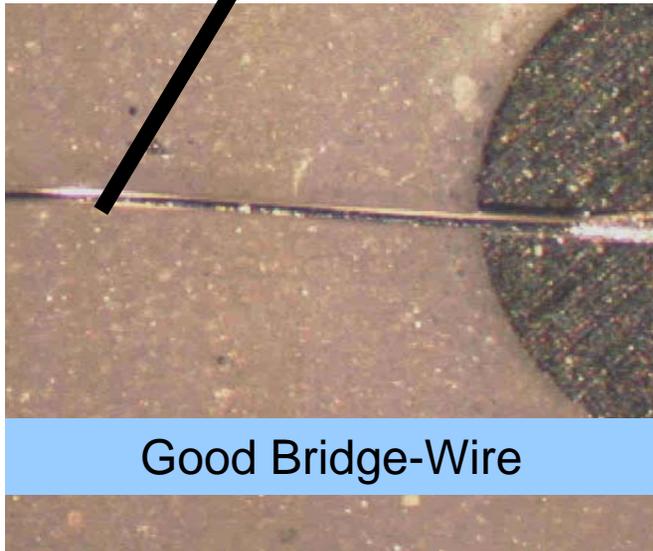
Correctly Routed Lanyard



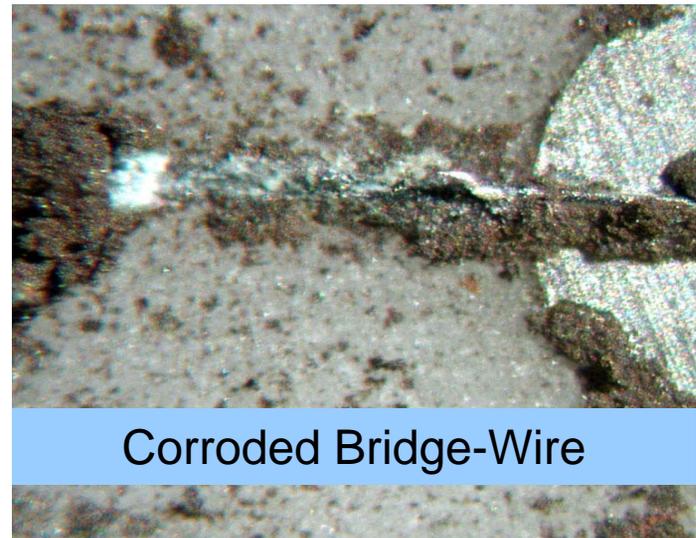
BBU-36 Impulse Cartridge



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Good Bridge-Wire



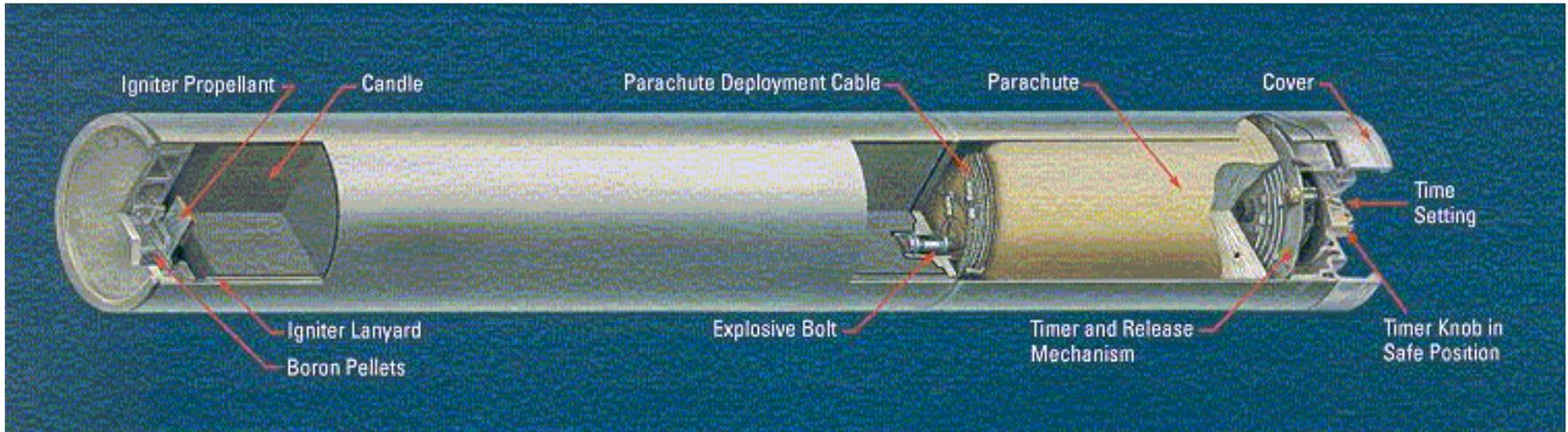
Corroded Bridge-Wire



LUU-2C/B ILLUMINATING FLARE



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LUU-2C/B ILLUMINATING FLARE

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LUU-2C/B ILLUMINATING FLARE VIDEO





JAU-8



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JAU-8 Initiator





Medium Caliber Ammunition “The Bad Boy”



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- **Med Cal a history of problems:**
 - **4 stockpiles suspended for design/production flaws**
 - PGU-38/U (twice) \$52M; PGU-28/B \$100M; 30MM combat mix (Honeywell design) \$1B
 - **4 propellant problems**
 - Improper blending, separation after blending, missing component, wrong propellant
 - **3 primer problems**
 - Primer integrity, contamination, improper installation



• Stuck in a “reactive cycle” of problem–test–fix–test–ECP–buy new/suspend old–new problem...



Medium Caliber Ammunition *"The Bad Boy" Video*



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Medium Caliber Ammunition “The Bad Boy”



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■ Reality check

- Wasted resources – large dollar losses (\$1B+)
- Ammo shortages – 30MM TP at 20% of objective
- Warfighting impact – F-15, F-16 & AC-130 reverted to using less capable ammo
- Result– gear-up landings, fragged airplanes, aircraft fire, blown barrels

■ Lagging indicators of systemic quality problems

Or leading indicators of munitions enterprise frailty?





Munitions Enterprise Frailty



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■ **“Frail”**

- **Capacity down 68% in last decade**
 - **Sustaining Engineering Funds Reduced**
 - Limits Aging/Surveillance Testing
 - **Decreased engagement with Industry**
-
- **2+ primes for each end product not necessarily an indicator of health**
 - **Numerous sole sources exist at component level**
 - Limited capacity
 - Age/condition of facilities, equipment and personnel
 - Technology stagnation



Munitions Enterprise Frailty



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- Little awareness of industrial base frailty
- Two prime suppliers is not a guarantee of health
- Crisis management not a viable approach



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The Winds of Change



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- **Industrial base preparedness – a team effort**

- **Air Force perspective**
 - **Services provide better long-range forecasts**
 - Advise industry of potential for profitability
 - **Services/suppliers jointly review supply chain and production line health annually**
 - Better understand program costs
 - **Assess risks and identify areas needing attention**
 - GOCO – government action; Private – industry action



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- **Air Force on a new path**
 - **Medium Caliber quality engineer initiative**
 - **Technical issue industry days - PGU-15 & FMU-143**
 - Technical spec reviews/re-writes
 - **Conduct Requirements symposium biennially**
 - Project needs through FYDP
 - **Prime contractor production**
 - Sub contractor reviews
 - Working closer with DCMA





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- **Active participant in procurement process**
 - **Better risk assessment**
 - Which proposal has the best likelihood needs
 - How well has this supplier done in the past
 - **Quality supplier preference**
 - Best-value
 - Quality history



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Summary Thoughts



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■ “Reactive vs. Active”

- Air Force is committed to a landscape quality change – across the munition enterprise
- A capable industrial base is essential to the Air Force – team effort required

■ Quality products in the hands of our warfighters is our top priority





QUESTIONS?



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