Defense Standardization Program Conference Joint Standards Board for Power Source Systems

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Army Power Division 5 March 2008



JSBPS2 MANDATE



The purpose of the JSB for Power Source Systems is to:

- Provide senior level visibility for standardization and interoperability initiatives.
- **Establish DoD Standards**
- Improve interoperability of forces.
- Recommend joint doctrine, tactics, techniques and procedures.
- Establish standardization of parts/components that have lowered cost, reduced inventories, shortened logistics chains and improved readiness.
- Develop joint solutions to issues that impact the Power Source Systems domain.
- Propose funding requirements for specific efforts/projects related to standardization and interoperability goals and objectives.
- Provide the interface for commercial/military integration.



March 2007



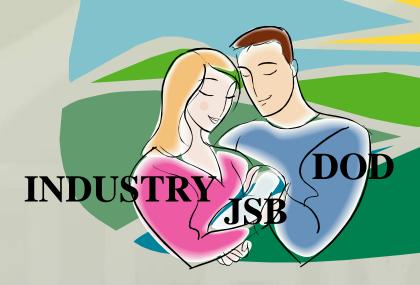
EXPAND ON PAST SUCCESSES

> **INSTITUTE POLICY**

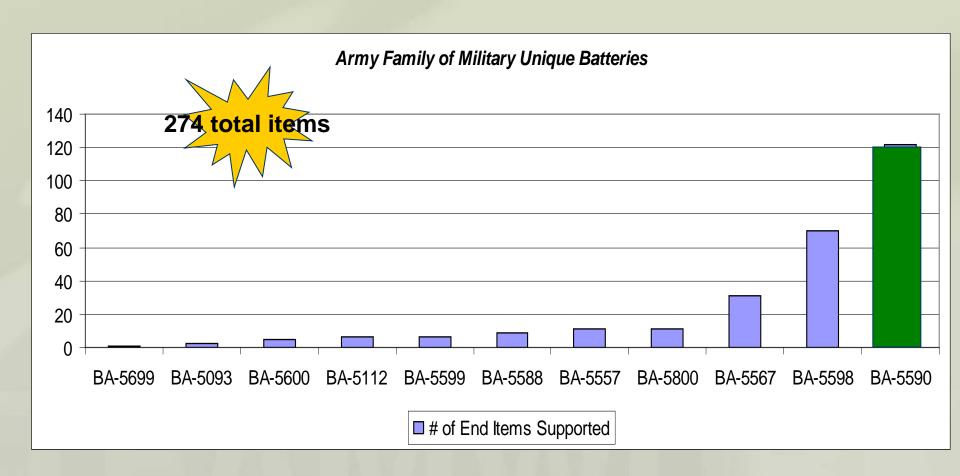
CHANGES



BRING SUFFICENT RESOURCES TO BEAR



Build on previous success..









Alkaline Cells



Commercial Chargers



Lead Acid Vehicle Batteries

Expand on use of standard commercial technologies



MARCH 2008







The problems



NO ONE

IS

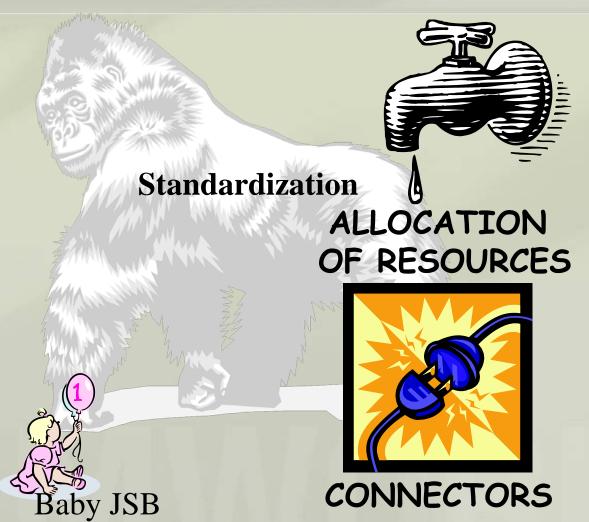
GUILTY!!





THE ISSUES







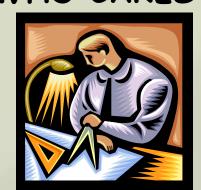
BASIC DATA













>INDUSTRY

- Power source is last item to be considered in design
- ▶It's a logistics problem
- Get paid to design new source
- Contractor part numbercontinual source of income

>Government PM

- Not a critical parameter
- It's a logistics problem
- Get it fielded
- > System performance is key
- Contractors are "always right"

>Standardization

- Last to know
- Not in the approval loop
- Lots of other things to keep track of

ISSUE - ELIMINATE THE "CONSIPRACY OF COMPLACENCY"







ALLOCATION OF RESOURCES

Standardization Community

- · Has the mission
- Has the funding resources (?)
- · Diverse within DOD
- · Lots to do

Power Community

- Has the knowledge
 - · Needs funding
 - Small/integrated
 - · Lots to do



ISSUE - GETTING THE RIGHT PEOPLE INVOLVED®







BASIC DATA

- Technical data in FEDLOG needs to be updated
 - Data is missing
 - · Incorrect
 - · Out of date
- Battery FIIG need to be updated to address current technologies
- Manage company provided data (embellishments)

ISSUE - GETTING THE DATA CORRECTED -MAJOR IMPACT ON POWER SOURCES COHERENT VIEW

Battery PSCV Data

* 2800 NSNs

* 11,000 lines of data







POWER SOURCES ARE NOT LIKE, "O" RINGS, WASHERS, MRES OR TENTS, ITS ALL ABOUT CONNECTORS, STUPID!!

ISSUE - IMPACTS ABILITY TO STANDARDIZE
LEGACY SYSTEMS
-IMPACTS ON INTEROPERABILITY OF
JOINT/COALITON FORCES



Same Basic Form Factor Same WarFighter Mission Same Battery Voltage





Radio Connector -Both fit the other radio Only one will power the other radio - with error message





Charger Connector -No Way Interchangeable



Standardization Run Amok?



"The rifleman in each section responsible for the Lightweight Thermal Weapons Sight (LTWS) might carry 80 AA batteries each weighing 0.375 lbs. This rifleman will be carrying batteries weighing a total of 30lbs in addition to the weight of the LTWS equipment itself."

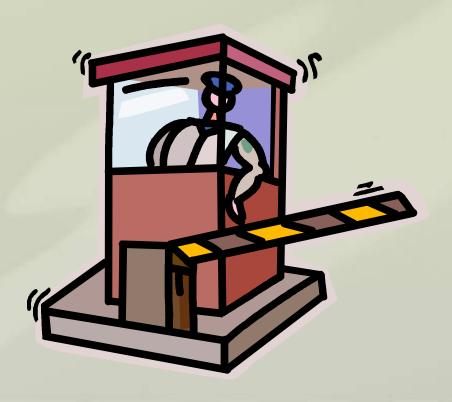
Jane's Strategic Advisory Services

The obvious solution might not be the optimum solution



The Gatekeeper





- In the approval chain
- Have "clout"
- Enforce existing policies
 - **Use standard items**
 - Best fit solution
 - Consider life cycle costs
- Ensure the "exception" is the exception and not the "rule"









ALL IS NOT LOST!



Keys to Success





- Provide resources
 - Manpower
 - Funding (internal and contract)
- Get Coherent View operational
 - identify legacy power sources for elimination/updating to new technologies
 - Identify potential solutions for new weapon systems
 - Identify preferred power source types
 - identify commercial products tested by military agencies
- Standardize on future connectors
- Develop DOD preferred batteries
- Establish power of the "Gate Keeper"



Other Efforts



- Development of a fuel cell specification
- Working on fuel cell output and fuel input connectors
- Soldier System connector standardization
- Update FIIG
- Update FLIS data (funding permitting)
- Work with NDIA Power Forum
- Establish JSBPS² Steering Committee (all are invited)



What I Need From You!



- Support for JSB Power Sources efforts
- Help identify key resources to assist the effort
- Points of contact are:

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