Energy, Power & Interconnect Technologies Division Overview

Ms. Sue Waggoner
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Energy, Power & Interconnect Technologies
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Our Product Expertise

Power Systems

Crane provides cradle to grave power system engineering services for ship, air, land, and space based systems.

Electronic Interconnect Technology

Unique and comprehensive Printed Circuit Board development, manufacturing, assembly, rework and repair capabilities.

High Energy Test Facility

Crane is DoD’s largest and most capable battery evaluation facility with a unique abusive test facility and extensive environmental capabilities.

Electrochemistry Eng Facility

Navy’s ONLY Printed Circuit Board manufacturing facility and one of only two DoD Printed Circuit Board Manufacturing facilities.
• DoD’s Largest Collection of resources dedicated to Electrochemical Power Sources
  – Facilities support Technology Development, Acquisition Engineering, Production Engineering, Test and Evaluation, Safety Certification Assessments, and In-Service Engineering
  – Facilities meet government & industry standards
Workforce Expertise

• Engineering Development
  – Assist transition of early TRL concepts to in-service
  – Champion funding and identify leverage opportunities

• Manufacturing Technology
  – Assist manufacturers with process upgrades, updates
  – Troubleshoot, assess root cause, corrective actions

• Test & Evaluation
  – Lithium battery safety testing
  – Design Verification, Qualification, LAT, Manufacturing validation, Stockpile Reliability, Failure Analysis, Disposal
  – Degradation analysis

• Acquisition

• In-service Engineering

• Energy & Power Sources Connectivity
  – Power Sources Conference
  – Aircraft Battery Fleet Support Team (NAVAIR)
  – BATTNET
  – Cooperative Program in Electrochemical Power Systems with Canada Dept of National Defense
  – JDMTP Technical Working Group
  – Joint Service Power Expo
  – Joint Standards Board
  – Lithium Battery Safety Certification (NAVSEA)
  – Naval Energetic Enterprise
  – NATO Power Sources
  – Submarine Main Storage Battery Committee Co-Chair
  – Other power community involvement (eg professional societies, symposia, conferences)
Interconnect Technology Expertise

- Technology Oversight, Policy, and Direction
- Layout Design
- Prototype Fabrication
- Reverse Engineering Solutions
- Last Resort/“Trusted” Manufacturing
  - PCB Fabrication (All technologies & complexities)
  - Electronic Assembly
- Miniature/Microminiature Rework & Repair
- Manufacturing Process Development
- Technology Demonstration/Validation
- Technical Knowledge Leadership
Energy, Power & Interconnect Technologies Summary

- We are DoD’s largest collection of Electro-Chemical Systems resources (Personnel, Facilities & Equipment)
- We serve as the Centerpiece of a rich, diversified Coalition of Partners providing broad and extensive Power Sources capability
- We provide unique and comprehensive interconnect technology development, manufacture, electronic rework and repair capabilities
- We are highly efficient and cost effective
- We practice Continuous Improvement every day in support of the Warfighter