

WE EXIST TO PROVIDE COST-WISE READINESS AND DOMINANT MARITIME COMBAT POWER TO MAKE A GREAT NAVY/MARINE CORPS TEAM BETTER.



F-18

Joint Cadmium Alternatives Team Meeting, 23-25 January 2007, New Orleans

HCAT/JCAT Joint Meeting for Environmentally Compliant Technologies

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JCAT Overview

- Develop, Test, Validate and Implement Cadmium Plating Alternatives for:
 - High-Strength Steel (HSS) Components
 - High Strength Fasteners
 - Electrical Connectors
 - Springs
- Both OEM/Vendor and touch-up/repair in field for life-cycle support

JCAT Agenda Overview

- High-Strength Steel (HSS) Components
 - JCAT Phase II Testing: AFRL/CTC Summary
 - Binary Zn Alloys: LHE Zn-Ni, Sn-Zn
 - CVD Aluminum technology
 - HSS Alloy development
- High Strength Fasteners
 - NAVSEA overview → Stakeholder meeting today
 - Draft JTP 2004
 - Leveraged by HSS Test Results
 - Cost/Benefit for Cad Alts underway (JG-PP)
- Electrical Connectors
 - Aluminum/Cr⁺³ coated connector testing

JCAT Agenda Changes Today

- Withdrawn presentations:
 1. Zn-Ni on helicopter components
 2. Magnetron sputtered Al - AFRL/CTC
 - Planned posting on hcat.org
- Add ~4:05 pm: Open Discussion on Cadmium Alternatives – HSS / Electrical Connectors
 - (Fastener discussion @ stakeholder's side meeting)

MIL-DTL-38999 Connectors

■ Electrical Connectors

- SAE/AE8-C1 Proposal to add Alternate coatings
(*New Classes TBD —Initial Draft in progress*)

1000 Hour Salt Fog (ASTM B 117)

- Plated Aluminum (MIL-DTL-83488)
- Zn-Ni (ASTM B 841)
- Nickel Teflon

500 Hour Salt Fog

- Zinc-Cobalt (ASTM B 840)

- DSCC Coordination meeting proposed July-August
 - Topic for “4:05” Open Discussion Today

On to the JCAT Presentations !!