DoD Corrosion Prevention and Control

Why we care about corrosion, materials, AND the Environment.

SERDP/ESTCP Metal Finishing Workshop
22 May 2006, Washington DC

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Why we care about corrosion, materials, AND the Environment.

SERDP/ESTCP Metal Finishing Workshop, May 22 - 23, 2006, Washington, DC. Sponsored by SERDP/ESTCP.
Severe Marine Corrosion Environments
Ground Equipment Headed for Iraq
Corrosion Under Antenna Cover
The Law

Public Law 107-314 Sec: 1067. Prevention and mitigation of corrosion of military infrastructure and equipment requires that:

- DoD designate a responsible official or organization
- DoD develop a long-term corrosion strategy to include
  - Expansion of emphasis on corrosion prevention & mitigation
  - Uniform application of requirements and criteria for the testing and certification of new corrosion prevention technologies within common materiel, infrastructure, or operational groupings
  - Implementation of programs to collect and share information on corrosion within the DoD
  - Establishment of a coordinated R&D program with transition plans

Strategy to include policy guidance & assessment of funding and personnel resources required
Integrated Product Team Structure

- Corrosion Prevention and Control IPT (CPCIPT)
  - Provide strategic review and advice
  - Develop and recommend policy guidance

- Working IPTs (WIPTs)
  - Policy and requirements
  - Impact, metrics and sustainment
  - Training and Doctrine
  - Communication and outreach
  - Specifications and standards
  - Facilities
  - Science and Technology
Office of the Secretary of Defense

REPORT TO CONGRESS
Department of Defense

Long-Term Strategy
to Reduce Corrosion and the Effects of Corrosion
on the Military Equipment and Infrastructure
of the Department of Defense

December 2003

Prepared by the
Principal Deputy Under Secretary of Defense
(Acquisition, Technology and Logistics)
Changes featured in Spiral 2

• More comprehensive coverage of requirements and processes
• Improved process flow illustrations
• Unique system and facility processes delineated
• Specific aerospace applications included

Download from www.dodcorrosionexchange.org
Environmental Issues

DoD Policy to (DoDD 4715.1E)

- Protect DoD personnel from accidental death, injury, or occupational illness.
- Protect the public from risk of death, injury, or property damage because of DoD activities.

DoD Policy to (DoDI 4715.4)

- Ensure that installations comply with applicable Federal, State, interstate, regional, and local environmental laws, regulations, and standards, and with relevant Executive Orders....
- Reduce the use of hazardous materials, the generation or release of pollutants, and the adverse effects on human health and the environment caused by DoD activities.
Summary

- Pollution prevention is the policy of DoD.
- Materials selection and processing, corrosion prevention research, engineering, and implementation have a crucial role to play in meeting DoD policy goals.
- The ultimate solutions involve working together in Policy, Acquisition, Maintenance/Logistics, Research & engineering, Personnel training & awareness.
- Advances in metal finishing will be an important part of the effort in both corrosion control and pollution prevention.