

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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**Office of the Deputy Under Secretary of Defense
for Science & Technology**



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Severe Marine Corrosion Environments



Ground Equipment Headed for Iraq





C-141 Depot Maintenance: Corrosion Remediation





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



Source
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Report to
Congress
November 2003

Download from
www.dodcorrosionexchange.org

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)



CPC Planning Guidebook

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

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CORROSION PREVENTION AND CONTROL
PLANNING GUIDEBOOK

(Spiral No. 1 – DECEMBER 2003)

Issued by: PDUSD (AT&L)
Director, Corrosion Policy and Oversight



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 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.

