

Defense Science Board
Report
on
Corrosion Control



October 2004

Office of the Under Secretary of Defense
For Acquisition, Technology, and Logistics
Washington, D.C. 20301-3140

Report Of The Defense Science Board On Corrosion Control

J. R. Gebman



Report Of The Defense Science Board On Corrosion Control:

Defense Science Board Report on Corrosion Control United States. Defense Science Board. Task Force on Corrosion Control, 2004 **Report of the Defense Science Board on Corrosion Control** Larry Flynn, Stephen Heilman, 2005-11 The Defense Science Board Task Force on Corrosion Control compiled this report to assess on going corrosion control efforts across the DoD Emphasizes the importance of leadership commitment design maintenance practices funding management scientific basis for prevention mitigation of corrosion Illus **Defense Science Board Report on Corrosion Control** , 2004 Weapons system readiness and safety are among the highest priority challenges for the Department of Defense DoD As it continues to receive a large number of mission taskings it is imperative that DoD equipment be maintained at an acceptable level of material condition so that it may be employed safely and effectively when required often in harsh and physically demanding environments However both the material condition and safety of DoD equipment are routinely being undermined by the effects of corrosion The dollar cost of corrosion to DoD has been estimated by the Government Accountability Office GAO to be 10 20 billion per year Aggressive action is needed at every stage in the life cycle of this equipment during design materials selection construction operation and maintenance to reduce the negative effects of corrosion At the request of the Acting Under Secretary of Defense for Acquisition Technology and Logistics USDAT L and the Deputy Under Secretary of Defense for Logistics and Materiel Readiness the Defense Science Board DSB formed a task force to address corrosion control efforts within the DoD There are two major areas of concern with respect to corrosion for DoD the Services weapon systems including platforms electronics and munitions and the supporting infrastructure including facilities bases and ports Due to the direct impact of weapon system corrosion on combat readiness the Task Force focused its attention on the former although both areas are critical to DoD and much of the subsequent discussion applies to both

Defense Science Board Report on Corrosion Control , 2004 Weapons system readiness and safety are among the highest priority challenges for the Department of Defense DoD As it continues to receive a large number of mission taskings it is imperative that DoD equipment be maintained at an acceptable level of material condition so that it may be employed safely and effectively when required often in harsh and physically demanding environments However both the material condition and safety of DoD equipment are routinely being undermined by the effects of corrosion The dollar cost of corrosion to DoD has been estimated by the Government Accountability Office GAO to be 10 20 billion per year Aggressive action is needed at every stage in the life cycle of this equipment during design materials selection construction operation and maintenance to reduce the negative effects of corrosion At the request of the Acting Under Secretary of Defense for Acquisition Technology and Logistics USDAT L and the Deputy Under Secretary of Defense for Logistics and Materiel Readiness the Defense Science Board DSB formed a task force to address corrosion control efforts within the DoD There are two major areas of concern with respect to corrosion for DoD the Services weapon systems including platforms electronics and munitions and the supporting

infrastructure including facilities bases and ports Due to the direct impact of weapon system corrosion on combat readiness the Task Force focused its attention on the former although both areas are critical to DoD and much of the subsequent discussion applies to both **Defense Science Board Task Force report on aerial refueling requirements** ,2004 Aerial refueling capabilities are an essential enabler of U S power projection and other critical national missions OPERATIONS ENDURING and IRAQI FREEDOM OEF and OIF could not have happened without these aerial refueling capabilities Aerial refueling makes possible rapid deployment of forces to contingencies and the elective employment of those forces in the contingencies In OIF there were over 8500 aerial refueling sorties flown and about 450 million pounds of fuel off loaded In addition aerial refueling remains a critical element in supporting the bomber leg of U S nuclear forces and other special national security missions The task force was charged to evaluate current aerial refueling capability and to identify and evaluate alternative means of meeting future aerial refueling requirements **Assessment of Corrosion Education**

National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Committee on Assessing Corrosion Education, 2009-03-12 The threat from the degradation of materials in the engineered products that drive our economy keep our citizenry healthy and keep us safe from terrorism and belligerent threats has been well documented over the years And yet little effort appears to have been made to apply the nation s engineering community to developing a better understanding of corrosion and the mitigation of its effects The engineering workforce must have a solid understanding of the physical and chemical bases of corrosion as well as an understanding of the engineering issues surrounding corrosion and corrosion abatement Nonetheless corrosion engineering is not a required course in the curriculum of most bachelor degree programs in MSE and related engineering fields and in many programs the subject is not even available As a result most bachelor level graduates of materials and design related programs have an inadequate background in corrosion engineering principles and practices To combat this problem the book makes a number of short and long term recommendations to industry and government agencies educational institutions and communities to increase education and awareness and ultimately give the incoming workforce the knowledge they need **United States Congressional Serial**

Set, Serial No. 14943, Senate Reports Nos. 53-69 United States. Congress. Senate, Appropriations, Budget Estimates, Etc., Vol. 2, Statements, January 4, 2005 to December 22, 2005, 109-1 Senate Document No. 109-13 ,2007

National Defense Authorization Act for Fiscal Year 2006 United States. Congress. Senate. Committee on Armed Services, 2005 **Air Force Magazine** ,2005 **Air Force and Space Digest** ,2005 *Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations* Anna M. Doro-on, 2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there

are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations **United States**

Congressional Serial Set, Serial No. 14994, House Reports Nos. 360-364 , Journal of the House of Representatives of the United States United States. Congress. House,1974 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House **Volatile Organic Corrosion Inhibitors** Chandrabhan

Verma,2025-09-15 Volatile Organic Corrosion Inhibitors covers the contributions of volatile corrosion inhibitors VCIs to improved durability sustainability and operational efficiency across various sectors including aerospace automotive mining and marine industries It demonstrates how they serve as a cost effective and ecologically friendly solution to protect metallic structures from the adverse effects of moisture oxygen and other corrosive elements Describing the unique mechanism that produces vapor molecules to build a protective molecular layer on metal surfaces the book explains how VCIs prevent moisture and other corrosive elements and considerably extend the lifespan of metal It examines how these inhibitors can effectively safeguard confined spaces and regions making them especially helpful in industries with regular production storage and shipping The book will interest researchers and graduate students studying corrosion science heterocyclic chemistry material science and engineering energy and chemistry It will also be a valuable reference for corrosion scientists and R D engineers working in industrial corrosion and industrial based corrosion protection systems **Research**

Opportunities in Corrosion Science and Engineering National Research Council,Division on Engineering and Physical Sciences,National Materials Advisory Board,Committee on Research Opportunities in Corrosion Science and Engineering,2011-02-27 The field of corrosion science and engineering is on the threshold of important advances Advances in lifetime prediction and technological solutions as enabled by the convergence of experimental and computational length and timescales and powerful new modeling techniques are allowing the development of rigorous mechanistically based models from observations and physical laws Despite considerable progress in the integration of materials by design into engineering development of products corrosion considerations are typically missing from such constructs Similarly condition monitoring

and remaining life prediction prognosis do not at present incorporate corrosion factors Great opportunities exist to use the framework of these materials design and engineering tools to stimulate corrosion research and development to achieve quantitative life prediction to incorporate state of the art sensing approaches into experimentation and materials architectures and to introduce environmental degradation factors into these capabilities Research Opportunities in Corrosion Science and Engineering identifies grand challenges for the corrosion research community highlights research opportunities in corrosion science and engineering and posits a national strategy for corrosion research It is a logical and necessary complement to the recently published book Assessment of Corrosion Education which emphasized that technical education must be supported by academic industrial and government research Although the present report focuses on the government role this emphasis does not diminish the role of industry or academia

Strom Thurmond National Defense

Authorization Act for Fiscal Year ... United States. Congress. House,2006 Department of Defense Appropriations Bill, 2005 United States. Congress. Senate. Committee on Appropriations,2004 Challenges and Issues with the Further Aging of U.S. Air Force Aircraft J. R. Gebman,2009 Over the next 20 years the further aging of already old aircraft will introduce challenges and issues for aircraft operators The technical challenges relate to structures propulsion and systems The institutional challenges include limitations on independent verification of fleet status and future condition and on information needed for engineering analyses including risk assessment and an overall scarcity of resources

Defense Management

Jack E. Edwards,2011-05 Corrosion costs the DoD over 23 billion annually affects both equipment and facilities and threatens personnel safety DoD has taken steps to improve its corrosion prevention and control CPC efforts These efforts include reorganizing the Corrosion Office CO and instituting Corrosion Exec positions in each of the military departments This report evaluated to what extent 1 the Corrosion Exec are involved in preparing CPC project proposals for submission 2 the CO has created a process to review and select projects for funding and 3 the military departments have validated the return on investment for funded projects Also reviewed the process the CO uses to determine the CPC activities that it will fund Illus A print on demand report

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