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MARKING GUIDELINE

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18 NOVEMBER 2014**

This marking guideline consists of 8 pages.

2014 Memorandum For Engineering Science

**National Academies of Sciences,
Engineering, and Medicine, Health and
Medicine Division, Board on Population
Health and Public Health
Practice, Roundtable on Environmental
Health Sciences, Research, and
Medicine**

2014 Memorandum For Engineering Science:

Open Science by Design National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Board on Research Data and Information, Committee on Toward an Open Science Enterprise, 2018-09-09 Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise The advent of scientific journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space using the technologies of that era to generate reliable knowledge more quickly and efficiently Harnessing today's stunning ongoing advances in information technologies the global research enterprise and its stakeholders are moving toward a new open science ecosystem Open science aims to ensure the free availability and usability of scholarly publications the data that result from scholarly research and the methodologies including code or algorithms that were used to generate those data Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise This report explores specific examples of open science and discusses a range of challenges focusing on stakeholder perspectives It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps

Owning the Technical Baseline for Acquisition Programs in the U.S. Air Force National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Air Force Studies Board, Committee on Owning the Technical Baseline for Acquisition Programs in the U.S. Air Force: A Study, 2016-11-25 While there are examples of successful weapon systems acquisition programs within the U S Air Force USAF many of the programs are still incurring cost growth schedule delays and performance problems The USAF now faces serious challenges in acquiring and maintaining its weapons systems as it strives to maintain its current programs add new capabilities to counter evolving threats and reduce its overall program expenditures Owning the technical baseline is a critical component of the Air Force's ability to regain and maintain acquisition excellence Owning the technical baseline allows the government acquisition team to manage and respond knowledgeably and effectively to systems development operations and execution thereby avoiding technical and other programmatic barriers to mission success Additionally owning the technical baseline ensures that government personnel understand the user requirements why a particular design and its various features have been selected over competing designs and what the options are to pursue alternative paths to the final product given unanticipated cost schedule and performance challenges Owning the Technical Baseline for Acquisition Programs in the U S Air Force discusses the strategic value to the Air Force of owning the technical baseline and the risk of not owning it and highlights key aspects of how agencies other than the Air Force own the technical baseline for their acquisition programs This report identifies specific barriers to owning the technical baseline for the Air Force and makes recommendations to help guide the Air Force in overcoming those barriers

Commerce, Justice, Science, and Related Agencies Appropriations for 2016 United States.

Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2015

Sustainable Development Samuel O. Idowu, Henk J. de Vries, Ivana Mijatovic, Donggeun Choi, 2019-09-27 This book examines education about standardization in the context of sustainable management. It shows the role of standardization education in the global economy and in markets, industries and businesses. The book presents knowledge on standardization for sustainable management, describes measures that can be taken to stimulate it and highlights strategies for teaching and disseminating the concept. Subsequently presenting a number of best practices and case studies, the book seeks to align theory and practice. For researchers, this is the first academic publication that interconnects the concepts of sustainability, standardization and education. For professionals in the area of sustainability, it shows that standardization is an essential instrument for enhancing sustainability for which proper education is needed. For standardization professionals, the book reveals the links to sustainability and it shows not only the importance of education about standardization but also how this can be organized and finally for universities, the book shows that standardization deserves to be included in the curriculum and it provides guidance and best practice examples about how this can be done. Official Gazette Philippines, 2013

Principles and Obstacles for Sharing Data from Environmental Health Research National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Population Health and Public Health Practice, Roundtable on Environmental Health Sciences, Research, and Medicine, 2016-05-29 On March 19, 2014, the National Academies of Sciences, Engineering, and Medicine held a workshop on the topic of the sharing of data from environmental health research. Experts in the field of environmental health agree that there are benefits to sharing research data but questions remain regarding how to effectively make these data available. The sharing of data derived from human subjects, making them both transparent and accessible to others, raises a host of ethical, scientific and process questions that are not always present in other areas of science such as physics, geology or chemistry. The workshop participants explored key concerns, principles and obstacles to the responsible sharing of data used in support of environmental health research and policy making while focusing on protecting the privacy of human subjects and addressing the concerns of the research community. Principles and Obstacles for Sharing Data from Environmental Health Research summarizes the presentations and discussions from the workshop.

Telecommunications Research and Engineering at the Institute for Telecommunication Sciences of the Department of Commerce National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Telecommunications Research and Engineering at the Department of Commerce's Boulder Laboratories, 2015-11-30 The Department of Commerce operates two telecommunications research laboratories located at the Department of Commerce's Boulder, Colorado campus: the National Telecommunications and Information Administration's NTIA's Institute for Telecommunications Sciences (ITS) and the National Institute of Standards and Technology's NIST's Communications Technology Laboratory (CTL). ITS serves as a

principal federal resource for solving the telecommunications concerns of federal agencies state and local governments private corporations and associations standards bodies and international organizations ITS could provide an essential service to the nation by being a principal provider of instrumentation and spectrum measurement services however the inter related shortages of funding staff and a coherent strategy limits its ability to fully function as a research laboratory This report examines the institute s performance resources and capabilities and the extent to which these meet customer needs The Boulder telecommunications laboratories currently play an important role in the economic vitality of the country and can play an even greater role given the importance of access to spectrum and spectrum sharing to the wireless networking and mobile cellular industries Research advances are needed to ensure the continued evolution and enhancement of the connected world the public has come to expect

Remediation of Buried Chemical Warfare Materiel National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review of the Conduct of Operations for Remediation of Recovered Chemical Warfare Materiel from Burial Sites, 2012-08-21 As the result of disposal practices from the early to mid twentieth century approximately 250 sites in 40 states the District of Columbia and 3 territories are known or suspected to have buried chemical warfare materiel CWM Much of this CWM is likely to occur in the form of small finds that necessitate the continuation of the Army s capability to transport treatment systems to disposal locations for destruction Of greatest concern for the future are sites in residential areas and large sites on legacy military installations The Army mission regarding the remediation of recovered chemical warfare materiel RCWM is turning into a program much larger than the existing munition and hazardous substance cleanup programs The Army asked the Nation Research Council NRC to examine this evolving mission in part because this change is significant and becoming even more prominent as the stockpile destruction is nearing completion One focus in this report is the current and future status of the Non Stockpile Chemical Material Project NSCMP which now plays a central role in the remediation of recovered chemical warfare materiel and which reports to the Chemical Materials Agency Remediation of Buried Chemical Warfare Materiel also reviews current supporting technologies for cleanup of CWM sites and surveys organizations involved with remediation of suspected CWM disposal sites to determine current practices and coordination In this report potential deficiencies in operational areas based on the review of current supporting technologies for cleanup of CWM sites and develop options for targeted research and development efforts to mitigate potential problem areas are identified

ICAS2014-International Conference on Analytics Driven Solutions Eduardo Rodriguez, Department of Leisure Studies Greg Richards, Greg Richards, 2014-09-10 Parameters , 2017

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