



**METHODS FOR
DEVELOPING
SPACECRAFT
WATER
EXPOSURE
GUIDELINES**

NATIONAL RESEARCH COUNCIL

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Methods For Developing Spacecraft Water Exposure Guidelines

**Bryan Ballantyne, Timothy C.
Marrs, Tore L. M. Syversen**

Methods For Developing Spacecraft Water Exposure Guidelines:

Methods for Developing Spacecraft Water Exposure Guidelines National Research Council, Commission on Life Sciences, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on Spacecraft Water Exposure Guidelines, 2000-10-18 The National Aeronautics and Space Administration NASA maintains an active interest in the environmental conditions associated with living and working in spacecraft and identifying hazards that might adversely affect the health and well being of crew members. Despite major engineering advances in controlling the spacecraft environment some water and air contamination appears to be inevitable. Several hundred chemical species are likely to be found in the closed environment of the spacecraft and as the frequency, complexity and duration of human space flight increase identifying and understanding significant health hazards will become more complicated and more critical for the success of the missions. NASA asked the National Research Council NRC Committee on Toxicology to develop guidelines similar to those developed by the NRC in 1992 for airborne substances for examining the likelihood of adverse effects from water contaminants on the health and performance of spacecraft crews. In this report the Subcommittee on Spacecraft Water Exposure Guidelines SWEGs examines what is known about water contaminants in spacecraft the adequacy of current risk assessment methods and the toxicologic issues of greatest concern

Methods for Developing Spacecraft Water Exposure Guidelines National Research Council, Commission on Life Sciences, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on Spacecraft Water Exposure Guidelines, 2000-11-18 The National Aeronautics and Space Administration NASA maintains an active interest in the environmental conditions associated with living and working in spacecraft and identifying hazards that might adversely affect the health and well being of crew members. Despite major engineering advances in controlling the spacecraft environment some water and air contamination appears to be inevitable. Several hundred chemical species are likely to be found in the closed environment of the spacecraft and as the frequency, complexity and duration of human space flight increase identifying and understanding significant health hazards will become more complicated and more critical for the success of the missions. NASA asked the National Research Council NRC Committee on Toxicology to develop guidelines similar to those developed by the NRC in 1992 for airborne substances for examining the likelihood of adverse effects from water contaminants on the health and performance of spacecraft crews. In this report the Subcommittee on Spacecraft Water Exposure Guidelines SWEGs examines what is known about water contaminants in spacecraft the adequacy of current risk assessment methods and the toxicologic issues of greatest concern

Methods for Developing Spacecraft Water Exposure Guidelines, 2000 Spacecraft Water Exposure Guidelines for Selected Contaminants National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Spacecraft Exposure Guidelines, 2007-04-02 The International Space Station is a closed and complex environment so some contamination of its internal atmosphere and

water system is expected To protect space crews from contaminants in potable and hygiene water the National Aeronautics and Space Administration NASA requested that the National Research Council NRC provide guidance on how to develop water exposure guidelines and review NASA s development of the exposure guidelines for specific chemicals NASA selects water contaminants for which spacecraft water exposure guidelines SWEGs will be established this involves identifying toxicity effects relevant to astronauts and calculating exposure concentrations on the basis of those end points SWEGs are established for exposures of 1 10 100 and 1 000 days This report is the second volume in the series Spacecraft Water Exposure Guidelines for Selected Chemicals SWEG reports for acetone alkylamines ammonia barium cadmium caprolactam formate formaldehyde manganese total organic carbon and zinc are included in this report The committee concludes that the SWEGs developed for these chemicals are scientifically valid based on the data reviewed by NASA and are consistent with the NRC 2000 report Methods for Developing Spacecraft Water Exposure Guidelines SWEG reports for additional chemicals will be presented in a subsequent volume Refinements to the Methods for Developing Spacecraft Exposure Guidelines National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Environmental Studies and Toxicology,Committee on Spacecraft Exposure Guidelines,2016-05-07 Human spaceflight is inherently risky with numerous potential hazards posed at each phase of a mission Potential health risks during spaceflights include short term health consequences from being in microgravity as well as long term health consequences that arise or continue months or years after a flight Additional health considerations are risks posed by exposure to environmental contaminants onboard spacecraft Because the International Space Station and spacecraft are closed environments that require recirculation of air and water supplies some contamination of the air and water will occur Even with onboard air and water purification systems chemicals will accumulate in the air and water as they recirculate or are recycled onboard Therefore it is necessary for the National Aeronautics and Space Administration NASA to identify hazardous contaminants and determine exposure levels that are not expected to pose a health risk to astronauts NASA uses spacecraft maximum allowance concentrations SMACs and spacecraft water exposure guidelines SWEGs to provide guidance on acceptable exposures to air and water contaminants during normal operations and emergency situations Refinements to the Methods for Developing Spacecraft Exposure Guidelines updates the methods for establishing SMACs and SWEGs and assists NASA with identifying chemicals that need updated SMACs or SWEGs and new chemicals for which these guidelines should be developed Spacecraft Water Exposure Guidelines for Selected Contaminants National Research Council,Division on Earth and Life Studies,Board on Environmental Studies and Toxicology,Committee on Toxicology,Subcommittee on Spacecraft Exposure Guidelines,2004-04-19 To protect space crews from contaminants in potable and hygiene water NASA requested that the National Research Council NRC provide guidance on how to develop water exposure guidelines and subsequently review NASA s development of exposure guidelines for specific chemicals **Safety Design for Space Systems** Gary Eugene

Musgrave,Axel Larsen,Tommaso Sgobba,2009-03-27 Progress in space safety lies in the acceptance of safety design and engineering as an integral part of the design and implementation process for new space systems Safety must be seen as the principle design driver of utmost importance from the outset of the design process which is only achieved through a culture change that moves all stakeholders toward front end loaded safety concepts This approach entails a common understanding and mastering of basic principles of safety design for space systems at all levels of the program organisation Fully supported by the International Association for the Advancement of Space Safety IAASS written by the leading figures in the industry with frontline experience from projects ranging from the Apollo missions Skylab the Space Shuttle and the International Space Station this book provides a comprehensive reference for aerospace engineers in industry It addresses each of the key elements that impact on space systems safety including the space environment natural and induced human physiology in space human rating factors emergency capabilities launch propellants and oxidizer systems life support systems battery and fuel cell safety nuclear power generators NPG safety habitat activities fire protection safety critical software development collision avoidance systems design operations and on orbit maintenance The only comprehensive space systems safety reference its must have status within space agencies and suppliers technical and aerospace libraries is practically guaranteed Written by the leading figures in the industry from NASA ESA JAXA et cetera with frontline experience from projects ranging from the Apollo missions Skylab the Space Shuttle small and large satellite systems and the International Space Station Superb quality information for engineers programme managers suppliers and aerospace technologists fully supported by the IAASS International Association for the Advancement of Space Safety *Review of DOD's Approach to Deriving an Occupational Exposure Level for Trichloroethylene* National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Environmental Studies and Toxicology,Committee to Review DOD's Approach to Deriving an Occupational Exposure Limit for TCE,2020-01-13 Trichloroethylene TCE is a solvent that is used as a degreasing agent a chemical intermediate in refrigerant manufacture and a component of spot removers and adhesives It is produced in mass quantities but creates dangerous vapors and is an environmental contaminant at many industrial and government facilities including facilities run by the U S Department of Defense DoD It is important to determine the safe occupational exposure level OEL for the solvent in order to protect the health of workers who are exposed to its vapors However there are concerns that the current occupational standards insufficiently protect workers from these health threats Review of DOD s Approach to Deriving an Occupational Exposure Level for Trichloroethylene makes recommendations to improve the DoD s approach to developing an OEL for TCE strengthen transparency of the process and improve confidence in the final OEL value This report reviews the DoD s approach using a literature review evidence synthesis based on weight of evidence WOE point of departure derivation physiologically based pharmacokinetic modeling extrapolation tools and explores other elements of the process of deriving an OEL for TCE It examines scientific approaches to developing exposure

values and cancer risk levels defining the scope of the problem and improving hazard identification **Safety Design for Space Systems** Tommaso Sgobba,Gary Eugene Musgrave,Gary Johnson,Michael T. Kezirian,2023-07-25 The lack of widespread education in space safety engineering and management has profound effects on project team effectiveness in integrating safety during design On one side it slows down the professional development of junior safety engineers while on the other side it creates a sectarian attitude that isolates safety engineers from the rest of the project team To speed up professional development bridge the gap within the team and prevent hampered communication and missed feedback the entire project team needs to acquire and develop a shared culture of space safety principles and techniques The second edition of Safety Design for Space Systems continues to address these issues with substantial updates to chapters such as battery safety life support systems robotic systems safety and fire safety This book also features new chapters on crew survivability design and nuclear space systems safety Finally the discussion of human rating concepts safety by design principles and safety management practices have also been revised and improved With contributions from leading experts worldwide this second edition represents an essential educational resource and reference tool for engineers and managers working on space projects Provides basic multidisciplinary knowledge on space systems safety design Addresses how space safety engineering and management can be implemented in practice Includes new chapters on crew survivability design and nuclear space systems safety Fully revised and updated to reflect the latest developments in the field

Fluoride in Drinking Water National Research Council,Division on Earth and Life Studies,Board on Environmental Studies and Toxicology,Committee on Fluoride in Drinking Water,2007-01-22 Most people associate fluoride with the practice of intentionally adding fluoride to public drinking water supplies for the prevention of tooth decay However fluoride can also enter public water systems from natural sources including runoff from the weathering of fluoride containing rocks and soils and leaching from soil into groundwater Fluoride pollution from various industrial emissions can also contaminate water supplies In a few areas of the United States fluoride concentrations in water are much higher than normal mostly from natural sources Fluoride is one of the drinking water contaminants regulated by the U S Environmental Protection Agency EPA because it can occur at these toxic levels In 1986 the EPA established a maximum allowable concentration for fluoride in drinking water of 4 milligrams per liter a guideline designed to prevent the public from being exposed to harmful levels of fluoride Fluoride in Drinking Water reviews research on various health effects from exposure to fluoride including studies conducted in the last 10 years **Toxicology Principles for the Industrial Hygienist** William E. Luttrell,Warren W. Jederberg,Kenneth R. Still,2008 Focuses on the applications of toxicology principles to the practice of industrial hygiene using case studies as examples **Acute Exposure Guideline Levels for Selected Airborne Chemicals** Committee on Acute Exposure Guideline Levels,Committee on Toxicology,Board on Environmental Studies and Toxicology,Division on Earth and Life Studies,National Research Council,2013-10-10 Acute Exposure Guideline Levels for Selected Airborne Chemicals Volume

15 identifies reviews and interprets relevant toxicologic and other scientific data for ethyl mercaptan methyl mercaptan phenyl mercaptan tert octyl mercaptan lewisite methyl isothiocyanate and selected monoisocyanates in order to develop acute exposure guideline levels AEGLs for these high priority acutely toxic chemicals AEGLs represent threshold exposure limits exposure levels below which adverse health effects are not likely to occur for the general public and are applicable to emergency exposures ranging from 10 minutes min to 8 h Three level AEGL 1 AEGL 2 and AEGL 3 are developed for each of five exposure periods 10 min 30 min 1 h 4 h and 8 h and are distinguished by varying degrees of severity of toxic effects This report will inform planning response and prevention in the community the workplace transportation the military and the remediation of Superfund sites **International Journal of Risk Assessment and Management** ,2005 Sci-tech News

,2002 **General and Applied Toxicology** Bryan Ballantyne,Timothy C. Marrs,Tore L. M. Syversen,2009 **Spacecraft**

Water Exposure Guidelines for Selected Contaminants National Research Council,Division on Earth and Life Studies,Board on Environmental Studies and Toxicology,Committee on Toxicology,Committee on Spacecraft Exposure Guidelines,2008-11-21 NASA maintains an active interest in the environmental conditions associated with living and working in spacecraft and identifying hazards that might adversely affect the health and well being of crew members Despite major engineering advances in controlling the spacecraft environment some water and air contamination is inevitable Several hundred chemical species are likely to be found in the closed environment of the spacecraft and as the frequency complexity and duration of human space flight increase identifying and understanding significant health hazards will become more complicated and more critical for the success of the missions To protect space crews from contaminants in potable and hygiene water NASA requested that the National Research Council NRC provide guidance on how to develop water exposure guidelines and subsequently review NASA s development of the exposure guidelines for specific chemicals This book presents spacecraft water exposure guidelines SWEGs for antimony benzene ethylene glycol methanol methyl ethyl ketone and propylene glycol **Science and Government Report** ,2000 **Spacecraft Water Exposure Guidelines for Selected**

Contaminants Subcommittee on Spacecraft Exposure Guidelines,Committee on Toxicology,Board on Environmental Studies and Toxicology,Division on Earth and Life Studies,National Research Council,2004-04-02 To protect space crews from contaminants in potable and hygiene water NASA requested that the National Research Council NRC provide guidance on how to develop water exposure guidelines and subsequently review NASA s development of exposure guidelines for specific chemicals **Book Review Index** ,2003 Every 3rd issue is a quarterly cumulation **U.S. Government Research & Development Reports** ,1970

Reviewing **Methods For Developing Spacecraft Water Exposure Guidelines**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing.

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