Solar Alert Safety System For Solar Threats

Department of Energy, Department of Defense, Department of Homeland Security, U.S. Congress, Department of Defense U.S. Government, National Aeronautics and Space Administration

Deadly Auroras? The Carrington Event Threat Department of Energy, Department of Defense, Department of Homeland Security, U.S. Congress, Department of Defense U.S. Government, National Aeronautics and Space Administration, 2017-03-05 This comprehensive and up-to-date book presents the complex story behind the threat posed by massive solar storms to the electric grid. There is growing concern that a repeat of the colossal Carrington-event storm of 1859, or even the lesser 1921 solar storm, could wreak unprecedented havoc on America's electric power system, potentially causing prolonged blackouts. In a worst-case scenario, some researchers believe that a giant solar storm could catastrophically damage hundreds of huge high-voltage transformers critical to the grid; since the replacement of these components could take years, unimaginable consequences are possible. Here we have compiled dozens of official documents and reports that explain the threat and explore possible measures to limit the risk. Contents: Part 1: Overview of the Threat * Part 2: Federal Energy Regulatory Commission (FERC) Material * Part 3: U.S. Congressional Hearings * Part 4: Department of Homeland Security Evaluation * Part 5: Federal Emergency Management Agency (FEMA) Material * Part 6: Secure Grid '11: Electrical Grid Crisis Tabletop Exercise * Part 7: Large Power Transformer Study Report * Part 8: Space Weather * Part 9: The Sun, the Earth, and Near-Earth Space: A Guide. The nation's power grid is vulnerable to the effects of an electromagnetic pulse (EMP), a sudden burst of electromagnetic radiation resulting from a natural or man-made event. EMP events occur with little or no warning and can have catastrophic effects, including causing outages to major portions of the U.S. power grid possibly lasting for months or longer. Naturally occurring EMPs are produced as part of the normal cyclical activity of the sun while man-made EMPs, including Intentional Electromagnetic Interference (IEMI) devices and High Altitude Electromagnetic Pulse (HEMP), are produced by devices designed specifically to disrupt or destroy electronic equipment or by the detonation of a nuclear device high above the earth's atmosphere. EMP threats have the potential to cause wide scale long-term losses with economic costs to the United States that vary with the magnitude of the event. The cost of damage from the most extreme solar event has been estimated at \$1 to \$2 trillion with a recovery time of four to ten years, while the average yearly cost of installing equipment to mitigate an EMP event is estimated at less than 20 cents per year for the average residential customer. Naturally occurring EMP events resulting from magnetic storms that flare on the surface of the sun are inevitable. Although we do not know when the next significant solar event will occur, we do know that the geomagnetic storms they produce have occurred at varying intensities throughout history. We are currently entering an interval of increased solar activity and are likely to encounter an increasing number of geomagnetic events on earth. In 1989, an unexpected geomagnetic storm triggered an event on the Hydro-Quebec power system that resulted in its complete collapse within 92 seconds, leaving six million customers without power. This same storm triggered hundreds of incidents across the United States including destroying a major transformer at an east coast nuclear generating station. Major geomagnetic storms, such as those that occurred in 1859 and 1921, are rare and occur approximately once every one hundred years. Storms of this type are global events that can last for days and will likely have an effect on electrical networks worldwide. Should a storm of this magnitude strike today, it could interrupt power to as many as 130 million people in the United States alone, requiring several years to recover. Mitigation technologies to protect the power grid against such a costly EMP event can be developed, and in some cases do exist. - Federal Energy Regulatory Commission (FERC)

Protecting the Electric Grid from the Potential Threats of Solar Storms and Electromagnetic Pulse United States. Congress, 2017-09-07 Protecting the electric grid from the potential threats of solar storms and electromagnetic pulse : hearing before the Committee on Homeland Security and Governmental Affairs, United States Senate, One Hundred Fourteenth Congress, first session, July 22, 2015.

Protecting the Electric Grid from the Potential Threats of Solar Storms and Electromagnetic Pulse Homeland Security and Governmental Affairs Committee,2015-07-22 This hearing by the Homeland Security and Government Affairs Committee examines the extent to which the electric grid may be vulnerable to the threats of solar weather or a high-altitude electromagnetic pulse. Protecting the electric grid is a monumental challenge, and the threats facing it are many and varied. The grid's physical infrastructure is necessarily spread throughout the nation and often cannot be protected from severe weather, sabotage or vandalism. Likewise, utilities themselves are encountering an enormous task in protecting their computer networks and fighting off cyberattacks. The threats of solar weather and high-altitude electromagnetic pulse are unique in that they can affect a vast region of the country. They may damage assets on the grid that are expensive, difficult and time-consuming to replace.

The Cambridge Guide to the Solar System Kenneth R. Lang,2011-03-03 Richly illustrated with full-color images, this book is a comprehensive, up-to-date description of the planets, their moons, and recent exoplanet discoveries. This second edition of a now classic reference is brought up to date with fascinating new discoveries from 12 recent Solar System missions. Examples include water on the Moon, volcanism on Mercury's previously unseen half, vast buried glaciers on Mars, geysers on Saturn's moon Enceladus, lakes of hydrocarbons on Titan, encounter with asteroid Itokawa, and sample return from comet Wild 2. The book is further enhanced by hundreds of striking new images of the planets and moons. Written at an introductory level appropriate for undergraduate and high-school students, it provides fresh insights that appeal to anyone with an

interest in planetary science. A website hosted by the author contains all the images in the book with an overview of their importance. A link to this can be found at www.cambridge.org/solarsystem. Assessing the Risks, Impacts, and Solutions for Space Threats United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space,2015 Human Health and Performance Risks of Space Exploration Missions Jancy C. McPhee,John B. Charles,United States. National Aeronautics and Space Administration,2009 Space Debris and Other Threats from Outer Space Joseph N. Pelton,2013-03-27 The mounting problem of space debris in low earth orbit and its threat to the operation of application satellites has been increasingly recognized as space activities increase. The efforts of the Inter Agency Space Debris Coordinating Committee (IADC) and UN COPUS have now led to international guidelines to mitigate the creation of new debris. This book discusses the technical studies being developed for active removal processes and otherwise mitigating problems of space debris, particularly in low earth orbit. This book also considers threats to space systems and the Earth that comes from natural causes such as asteroids, coronal mass ejections, and radiation. After more than half a century of space applications and explorations, the time has come to consider ways to provide sustainability for long-term space activities.

Biofuels, Solar and Wind as Renewable Energy Systems D. Pimentel,2008-07-22 The petroleum age began about 150 years ago. Easily available energy has s- ported major advances in agriculture, industry, transportation, and indeed many diverse activities valued by humans. Now world petroleum and natural gas s- plies have peaked and their supplies will slowly decline over the next 40–50 years until depleted. Although small amounts of petroleum and natural gas will remain underground, it will be energetically and economically impossible to extract. In the United States, coal supplies could be available for as long as 40–50 years, depending on how rapidly coal is utilized as a replacement for petroleum and natural gas. Having been comfortable with the security provided by fossil energy, especially petroleum and natural gas, we appear to be slow to recognize the energy crisis in the U. S. and world. Serious energy conservation and research on viable renewable - ergy technologies are needed. Several renewable energy supply and storage. Most renewable technologies require extensive land; a few researchers have even suggested that one-half of all land biomass could be harvested in order to supply the U. S. with 30% of its liquid fuel! Some optimistic investigations of renewable energy have failed to recognize that only 0. 1% of the solar energy is captured annually in the U. S.

Cyber Security United States. Congress. Senate. Committee on Energy and Natural Resources, 2009

Developing threats Great Britain: Parliament: House of Commons: Defence Committee,2012-02-22 Technologies such as GPS, vital to the financial markets as well as the military, are known to be vulnerable to the effects of space weather or the EMP resultant from a nuclear weapon exploded at altitude. It is also possible to build non-nuclear devices which can disrupt electronic systems, though so far only over a limited area. A severe space weather event is not necessarily seen as a military problem in the first instance, but it would be likely to meet the definition of an emergency under the Civil Contingencies Act 2004 and call for the help of the Armed Forces. The reactive posture described by the Government appears somewhat complacent. The Committee is very concerned that there appears to be no one Government Department identified to take immediate lead responsibility should there be a severe space weather event. The Government must make clear exactly where lead responsibility in relation to EMP disturbances lies both nationally and within the MoD. Defence alone cannot protect against the threat of EMP. It must be a concern of the National Security Council and civil contingency planners, with proper standards of protection developed with the vital service industries most at risk. The effects of a High Altitude Electro-Magnetic Pulse Event as a result of a nuclear weapon exploded at high altitude, would be so serious that only government action could be expected to mitigate it. Security of satellites is a matter of growing concern as our reliance upon such systems and the sheer number of satellites in orbit increase.

Install Your Own Solar Panels Joseph Burdick, Philip Schmidt, 2017-06-27 Labor and related costs account for more than half of the price of the average home solar installation. But homeowners can save thousands of dollars with this user-friendly manual, which follows the same process professional contractors use. Through detailed directions and step-by-step photos, veteran solar installer Joseph Burdick and seasoned builder Philip Schmidt teach you how to determine the size, placement, and type of installation you'll need. This comprehensive DIY guide covers everything from assembling rooftop racking or building a ground-mount structure to setting up the electrical connections and making a battery bank for off-grid systems.

Critical Infrastructure Protection United States. Congress. Senate. Committee on the Judiciary. Subcommittee on Technology, Terrorism, and Government Information, 1998 Department of Homeland Security Appropriations for 2014 United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security, 2013 The Next Space Race Richard M. Harrison, Peter A. Garretson, 2023-03-31 If China's space ambitions continue unchallenged, America will be seriously economically and militarily disadvantaged. This book provides a comprehensive strategy to secure U.S. primacy in the space domain. From Moon landings to plans for asteroid mining, China is beginning to exploit space to achieve its great power ambitions. Its strategy could, over time, severely and adversely impact U.S. economic and military security. The United States needs to structure its approach to space to ensure that it can meet or surpass PRC timelines. Authors Richard M. Harrison and Peter A. Garretson, both from the American Foreign Policy Council, review the literature on Chinese space ambitions and assess U.S. space-related initiatives across the government, military, and private sector to understand the maturity of technology available to support space initiatives. Their first-hand research and findings are supplemented by interviews with industry experts, corporate space leaders, and government and military officials. The Next Space Race describes and seeks to influence the development of American space policy to ensure the U.S. industrial base is ready to meet or surpass PRC milestones, empower and clarify the mission of the newly minted Space Force, provide guidance to NASA and other federal agencies, and incentivize private sector companies to contribute to ensuring American space primacy.

Handbook of Information Security, Threats, Vulnerabilities, Prevention, Detection, and Management Hossein Bidgoli,2006-03-13 The Handbook of Information Security is a definitive 3-volume handbook that offers coverage of both established and cutting-edge theories and developments on information and computer security. The text contains 180 articles from over 200 leading experts, providing the benchmark resource for information security, network security, information privacy, and information warfare.

Safety Design for Space Systems Gary E. Musgrave Ph.D,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; 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)

A Proposed Nationwide Natural Disaster Warning System (NADWARN) United States. Natural Disaster Warning Survey Group, 1965

Handbook of Research on Intrusion Detection Systems Gupta, Brij B., Srinivasagopalan, Srivathsan, 2020-02-07 Businesses in today's world are adopting technology-enabled operating models that aim to improve growth, revenue, and identify emerging markets. However, most of these businesses are not suited to defend themselves from the cyber risks that come with these data-driven practices. To further prevent these threats, they need to have a complete understanding of modern network security solutions and the ability to manage, address, and respond to security breaches. The Handbook of Research on Intrusion Detection Systems provides emerging research exploring the theoretical and practical aspects of prominent and effective techniques used to detect and contain breaches within the fields of data science and cybersecurity. Featuring coverage on a broad range of topics such as botnet detection, cryptography, and access control models, this book is ideally designed for security analysts, scientists, researchers, programmers, developers, IT professionals, scholars, students, administrators, and faculty members seeking research on current advancements in network security technology.

Space Safety and Rescue ,1984

Astronautics and Aeronautics, 1976. A Chronology Eleanor H. Ritchie, 1984

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